

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
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125
all docs

125
docs citations

125
times ranked

2305
citing authors

#	ARTICLE	IF	CITATIONS
1	A <i>PRPH2</i> gene variant detected in retinitis punctata albescens with congenital hypertrophy of the retinal pigment epithelium. <i>European Journal of Ophthalmology</i> , 2022, 32, NP134-NP138.	0.7	0
2	Laser-induced nanobubbles safely ablate vitreous opacities in vivo. <i>Nature Nanotechnology</i> , 2022, 17, 552-559.	15.6	37
3	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
4	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
5	Safety Evaluation of Photoacoustic Tomography System for Intraocular Tumors. <i>Translational Vision Science and Technology</i> , 2022, 11, 30.	1.1	1
6	Multimodal In Vivo Imaging of Retinal and Choroidal Vascular Occlusion. <i>Photonics</i> , 2022, 9, 201.	0.9	3
7	Biodegradable silicon nanoneedles for ocular drug delivery. <i>Science Advances</i> , 2022, 8, eabn1772.	4.7	31
8	Chorioretinal Hypoxia Detection Using Lipid-Polymer Hybrid Organic Room-Temperature Phosphorescent Nanoparticles. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 18182-18193.	4.0	6
9	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
10	Retinal safety evaluation of photoacoustic microscopy. <i>Experimental Eye Research</i> , 2021, 202, 108368.	1.2	5
11	Longitudinal 3D Visualization of Choroidal Neovascularization in a Rabbit Model using Multimodal Photoacoustic Microscopy and Optical Coherence Tomography Molecular Imaging. , 2021, , .		0
12	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
13	Gold Nanorod Contrast-Enhanced Molecular Imaging of Choroidal Neovascularization using Dual Photoacoustic Ophthalmoscopy and Optical Coherence Tomography in a Rabbit Model. , 2021, , .		0
14	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
15	A novel think tank program to promote innovation and strategic planning in ophthalmic surgery. <i>Perioperative Care and Operating Room Management</i> , 2021, 22, 100147.	0.2	1
16	Long-term multimodal imaging characterization of persistent retinal neovascularization using DL-alpha-amino adipic acid in pigmented and white rabbits. <i>Experimental Eye Research</i> , 2021, 207, 108577.	1.2	4
17	Gold Nanorod Enhanced Photoacoustic Microscopy and Optical Coherence Tomography of Choroidal Neovascularization. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 40214-40228.	4.0	12
18	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

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19	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
20	Laser Therapy in the Treatment of Diabetic Retinopathy and Diabetic Macular Edema. <i>Current Diabetes Reports</i> , 2021, 21, 35.	1.7	43
21	Chain-like gold nanoparticle clusters for multimodal photoacoustic microscopy and optical coherence tomography enhanced molecular imaging. <i>Nature Communications</i> , 2021, 12, 34.	5.8	77
22	Thin Layer-Protected Gold Nanoparticles for Targeted Multimodal Imaging with Photoacoustic and CT. <i>Pharmaceuticals</i> , 2021, 14, 1075.	1.7	8
23	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
24	Photo-mediated Ultrasound Therapy to Treat Retinal Neovascularization. , 2020, 2020, 5244-5247.		7
25	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
26	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
27	Simultaneous photoacoustic microscopy, spectral-domain optical coherence tomography, and fluorescein microscopy multi-modality retinal imaging. <i>Photoacoustics</i> , 2020, 20, 100194.	4.4	24
28	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
29	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
30	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
31	Three-Dimensional Visualization of Choroidal Vascular Lesions using Multimodal Photoacoustic Microscopy and Optical Coherence Tomography in Living Rabbits. , 2020, , .		0
32	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
33	Removing Subcutaneous Microvessels Using Photo-Mediated Ultrasound Therapy. <i>Lasers in Surgery and Medicine</i> , 2020, 52, 984-992.	1.1	6
34	Ultralow energy photoacoustic microscopy for ocular imaging in vivo. <i>Journal of Biomedical Optics</i> , 2020, 25, 1.	1.4	9
35	Visualization of Retinal Ischemia using Multimodal Photoacoustic Microscopy and Optical Coherence Tomography in a Rabbit Model. , 2020, , .		0
36	Blue gold nanoparticles contrast-enhanced multimodal Photoacoustic Microscopy and Optical Coherence Tomography for molecular imaging of choroidal neovascularization. , 2020, , .		0

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37	Integrated photoacoustic microscopy, optical coherence tomography and fluorescence microscopy imaging of rabbit ocular neovascularization in vivo. , 2020, , .		0
38	Multimodal photoacoustic microscopy and optical coherence tomography imaging of laser-induced choroidal neovascularization in the rabbit retina. , 2020, , .		0
39	FLASH: A Novel Tool to Identify Vision-Threatening Eye Emergencies. International Journal of Ophthalmic Research, 2020, 6, 336-343.	0.2	1
40	Real-time OCT guidance and multimodal imaging monitoring of subretinal injection induced choroidal neovascularization in rabbit eyes. Experimental Eye Research, 2019, 186, 107714.	1.2	20
41	High-resolution multimodal photoacoustic microscopy and optical coherence tomography image-guided laser induced branch retinal vein occlusion in living rabbits. Scientific Reports, 2019, 9, 10560.	1.6	31
42	Smartphone-based fundus photography for screening of plus-disease retinopathy of prematurity. Graefe's Archive for Clinical and Experimental Ophthalmology, 2019, 257, 2579-2585.	1.0	26
43	Smartphone-Based, Rapid, Wide-Field Fundus Photography for Diagnosis of Pediatric Retinal Diseases. Translational Vision Science and Technology, 2019, 8, 29.	1.1	34
44	<p>Prefilled syringes for intravitreal drug delivery</p>. Clinical Ophthalmology, 2019, Volume 13, 701-706.	0.9	20
45	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
46	Anti"Vascular Endothelial Growth Factor Therapy for Diabetic Retinopathy: Consequences of Inadvertent Treatment Interruptions. American Journal of Ophthalmology, 2019, 204, 13-18.	1.7	51
47	Usability testing of a smartphone-based retinal camera among first-time users in the primary care setting. BMJ Innovations, 2019, 5, 120-126.	1.0	11
48	Integrated photoacoustic microscopy and optical coherence tomography image-guided laser induced branch retinal vein occlusion in living rabbits. , 2019, , .		1
49	Indocyanine Green-Enhanced Dual Photoacoustic Microscopy and Fluorescence Imaging for Visualization of Choroidal Neovascularization in a Rabbit Model. , 2019, , .		0
50	Non-Therapeutic Laser Retinal Injury. International Journal of Ophthalmic Research, 2019, 5, 321-335.	0.2	4
51	Gold Nanorod Contrast-Enhanced Molecular Imaging of Retinal Neovascularization using Dual Photoacoustic Microscopy and Optical Coherence Tomography in Rabbits. , 2019, , .		0
52	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
53	Contrast agent enhanced multimodal photoacoustic microscopy and optical coherence tomography for imaging rabbit choroidal and retinal vessels in vivo. , 2019, , .		0
54	Multi-wavelength photoacoustic microscopy for detection of retinal vein occlusion during laser photocoagulation in rabbits. , 2019, , .		1

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55	Real-time photoacoustic sensing for photo-mediated ultrasound therapy. <i>Optics Letters</i> , 2019, 44, 4063.	1.7	9
56	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
57	Photoacoustic Ophthalmoscopy: Principle, Application, and Future Directions. <i>Journal of Imaging</i> , 2018, 4, 149.	1.7	24
58	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
59	High-resolution, in vivo multimodal photoacoustic microscopy, optical coherence tomography, and fluorescence microscopy imaging of rabbit retinal neovascularization. <i>Light: Science and Applications</i> , 2018, 7, 103.	7.7	77
60	A Smartphone-Based Tool for Rapid, Portable, and Automated Wide-Field Retinal Imaging. <i>Translational Vision Science and Technology</i> , 2018, 7, 21.	1.1	66
61	Removal of choroidal vasculature using concurrently applied ultrasound bursts and nanosecond laser pulses. <i>Scientific Reports</i> , 2018, 8, 12848.	1.6	17
62	Preretinal hemorrhages following chiropractor neck manipulation. <i>American Journal of Ophthalmology Case Reports</i> , 2018, 11, 181-183.	0.4	4
63	Advances in Retinal Optical Imaging. <i>Photonics</i> , 2018, 5, 9.	0.9	22
64	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
65	Novel Retinal Laser Therapies. <i>International Journal of Ophthalmic Research</i> , 2018, 4, 272-281.	0.2	3
66	Innovations in Retinal Laser Technology. <i>Optics and Photonics Journal</i> , 2018, 08, 173-186.	0.3	3
67	Multimodality Imaging Guided Retichoroidal Neovascularization in a Rabbit Model. , 2018, , .		0
68	Retinal and choroidal imaging in vivo using integrated photoacoustic microscopy and optical coherence tomography. , 2018, 10474, .		0
69	Integrated photoacoustic microscopy, optical coherence tomography, and fluorescence microscopy for multimodal chorioretinal imaging. , 2018, 10494, .		1
70	Antivascular effect induced by photo-mediated ultrasound. <i>Proceedings of SPIE</i> , 2017, , .	0.8	0
71	High-precision, non-invasive anti-microvascular approach via concurrent ultrasound and laser irradiation. <i>Scientific Reports</i> , 2017, 7, 40243.	1.6	27
72	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

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73	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
74	Re: Bressler etÂal.: Factors associated with worsening proliferative diabetic retinopathy inÂeyes treated with panretinal photocoagulation or ranibizumab (<i>Ophthalmology</i> . 2017;124:431-439). <i>Ophthalmology</i> , 2017, 124, e87-e88.	2.5	2
75	Noninvasive chorioretinal imaging in living rabbits using integrated photoacoustic microscopy and optical coherence tomography. <i>Optics Express</i> , 2017, 25, 15947.	1.7	84
76	New Developments in the Classification, Pathogenesis, Risk Factors, Natural History, and Treatment of Branch Retinal Vein Occlusion. <i>Journal of Ophthalmology</i> , 2017, 2017, 1-18.	0.6	38
77	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
78	Notice of Removal: The application of antivascular photo-mediated ultrasound therapy in removing microvessels in the eye. , 2017, , .		3
79	Neuroprotection and Retinal Diseases. <i>Developments in Ophthalmology</i> , 2016, 55, 322-329.	0.1	5
80	DEVELOPMENT OF CHRONIC SUBRETINAL FLUID IN KEARNSâ€SAYRE SYNDROME. <i>Retinal Cases and Brief Reports</i> , 2016, 10, 236-238.	0.3	3
81	Further Evidence That Cataract Surgery Is Not Associated With Macular Degeneration Progression. <i>JAMA Ophthalmology</i> , 2016, 134, 627.	1.4	1
82	Antivascular photo-mediated ultrasound therapy. , 2016, , .		3
83	Anti-angiogenic Therapy for Retinal Disease. <i>Handbook of Experimental Pharmacology</i> , 2016, 242, 271-307.	0.9	38
84	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
85	High-resolution contrast-enhanced optical coherence tomography in mice retinæ. <i>Journal of Biomedical Optics</i> , 2016, 21, 1.	1.4	20
86	Potentially Reversible Effect of Niacin Therapy on Edema From Retinal Vein Occlusion. <i>JAMA Ophthalmology</i> , 2016, 134, 839.	1.4	5
87	Reply. <i>American Journal of Ophthalmology</i> , 2016, 161, 216-217.	1.7	0
88	New Frontiers in Retinal Imaging. <i>International Journal of Ophthalmic Research</i> , 2016, 2, 148-158.	0.2	7
89	Spectral-Domain Optical Coherence Tomography, Wide-Field Photography, and Fundus Autofluorescence Correlation of Posterior Ophthalmomyiasis Interna. <i>Ophthalmic Surgery Lasers and Imaging Retina</i> , 2016, 47, 682-685.	0.4	1
90	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

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91	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
92	Peripheral Avascular Retina in a Term Male Neonate With Microvillus Inclusion Disease and Pancreatic Insufficiency. <i>Ophthalmic Surgery Lasers and Imaging Retina</i> , 2015, 46, 589-591.	0.4	1
93	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
94	Prevalence of diabetes mellitus in patients with newly evaluated papillary thyroid cancer. <i>Thyroid Research</i> , 2014, 7, 7.	0.7	11
95	Use of Fundus Autofluorescence to Evaluate Retinal Artery Occlusions. <i>Retina</i> , 2014, 34, 2490-2491.	1.0	6
96	Prefoveal Vitreous Condensation in Chronic Inflammation. <i>Ophthalmic Surgery Lasers and Imaging Retina</i> , 2014, 45, 447-450.	0.4	8
97	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
98	Restoration of Retinal Structure and Function after Selective Photocoagulation. <i>Journal of Neuroscience</i> , 2013, 33, 6800-6808.	1.7	53
99	Wnt Signaling Promotes Müller Cell Proliferation and Survival after Injury. , 2013, 54, 444.		80
100	Ocular safety limits for 1030nm femtosecond laser cataract surgery. , 2013, , .		0
101	EFFECT OF INTRAVITREAL TRIAMCINOLONE ACETONIDE ON HEALING OF RETINAL PHOTOCOAGULATION LESIONS. <i>Retina</i> , 2013, 33, 63-70.	1.0	6
102	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
103	IgG4-positive Sclerosing Orbital Inflammation Involving the Conjunctiva: A Case Report. <i>Ocular Immunology and Inflammation</i> , 2012, 20, 375-377.	1.0	42
104	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
105	ERG monitoring of retinal function during systemic chemotherapy for retinoblastoma. <i>British Journal of Ophthalmology</i> , 2012, 96, 877-880.	2.1	21
106	Retinal safety of near-infrared lasers in cataract surgery. <i>Journal of Biomedical Optics</i> , 2012, 17, 0950011.	1.4	21
107	Therapeutic Window of Retinal Photocoagulation With Green (532-nm) and Yellow (577-nm) Lasers. <i>Ophthalmic Surgery Lasers and Imaging Retina</i> , 2012, 43, 341-347.	0.4	45
108	Intra-arterial and Oral Digoxin Therapy for Retinoblastoma. <i>Ophthalmic Genetics</i> , 2011, 32, 147-150.	0.5	22

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109	SELECTIVE RETINAL THERAPY WITH MICROSECOND EXPOSURES USING A CONTINUOUS LINE SCANNING LASER. Retina, 2011, 31, 380-388.	1.0	39
110	Improving the therapeutic window of retinal photocoagulation by spatial and temporal modulation of the laser beam. Journal of Biomedical Optics, 2011, 16, 028004.	1.4	15
111	Improved safety of retinal photocoagulation with a shaped beam and modulated pulse. Proceedings of SPIE, 2010, , .	0.8	1
112	Preputial Epidermoid Cyst. Journal of Lower Genital Tract Disease, 2010, 14, 382-386.	0.9	12
113	Selective retinal therapy with a continuous line scanning laser. , 2010, , .		3
114	Photoacoustic ocular imaging. Optics Letters, 2010, 35, 270.	1.7	122
115	Resolution of Persistent Exudative Retinal Detachment in a Case of Sturge-Weber Syndrome with Anti-VEGF Administration. Ocular Immunology and Inflammation, 2009, 17, 292-294.	1.0	30
116	Dynamics of retinal photocoagulation and rupture. Journal of Biomedical Optics, 2009, 14, 034007.	1.4	75
117	Computational model of retinal photocoagulation and rupture. , 2009, , .		1
118	Finite element model of thermal processes in retinal photocoagulation. , 2009, , .		1
119	Diabetic retinopathy: a growing concern in an aging population. Geriatrics, 2009, 64, 16-20.	0.3	17
120	Healing of Retinal Photocoagulation Lesions. , 2008, 49, 5540.		144
121	Effect of Pulse Duration on Size and Character of the Lesion in Retinal Photocoagulation. JAMA Ophthalmology, 2008, 126, 78.	2.6	164
122	Patterned retinal coagulation with a scanning laser. , 2007, , .		1