

Yannis M Paulus

List of Publications by Year in descending order

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Version: 2024-02-01

122
papers

2,283
citations

236925

25
h-index

289244

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. | 1.3 | 0 |
| 2 | Laser-induced nanobubbles safely ablate vitreous opacities in vivo. <i>Nature Nanotechnology</i> , 2022, 17, 552-559. | 31.5 | 37 |
| 3 | Effect of Photo-Mediated Ultrasound Therapy on Nitric Oxide and Prostacyclin from Endothelial Cells. <i>Applied Sciences (Switzerland)</i> , 2022, 12, 2617. | 2.5 | 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. | 2.1 | 5 |
| 5 | Safety Evaluation of Photoacoustic Tomography System for Intraocular Tumors. <i>Translational Vision Science and Technology</i> , 2022, 11, 30. | 2.2 | 1 |
| 6 | Multimodal In Vivo Imaging of Retinal and Choroidal Vascular Occlusion. <i>Photonics</i> , 2022, 9, 201. | 2.0 | 3 |
| 7 | Biodegradable silicon nanoneedles for ocular drug delivery. <i>Science Advances</i> , 2022, 8, eabn1772. | 10.3 | 31 |
| 8 | Chorioretinal Hypoxia Detection Using Lipid-Polymer Hybrid Organic Room-Temperature Phosphorescent Nanoparticles. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 18182-18193. | 8.0 | 6 |
| 9 | Comparison of automated and expert human grading of diabetic retinopathy using smartphone-based retinal photography. <i>Eye</i> , 2021, 35, 334-342. | 2.1 | 15 |
| 10 | Retinal safety evaluation of photoacoustic microscopy. <i>Experimental Eye Research</i> , 2021, 202, 108368. | 2.6 | 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. | 1.0 | 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. | 2.3 | 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. | 0.3 | 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. | 2.6 | 4 |
| 17 | Gold Nanorod Enhanced Photoacoustic Microscopy and Optical Coherence Tomography of Choroidal Neovascularization. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 40214-40228. | 8.0 | 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. | 14.6 | 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. Translational Vision Science and Technology, 2021, 10, 10. | 2.2 | 7 |
| 20 | Laser Therapy in the Treatment of Diabetic Retinopathy and Diabetic Macular Edema. Current Diabetes Reports, 2021, 21, 35. | 4.2 | 43 |
| 21 | Chain-like gold nanoparticle clusters for multimodal photoacoustic microscopy and optical coherence tomography enhanced molecular imaging. Nature Communications, 2021, 12, 34. | 12.8 | 77 |
| 22 | Thin Layer-Protected Gold Nanoparticles for Targeted Multimodal Imaging with Photoacoustic and CT. Pharmaceuticals, 2021, 14, 1075. | 3.8 | 8 |
| 23 | Plasmonic Gold Nanostar-Enhanced Multimodal Photoacoustic Microscopy and Optical Coherence Tomography Molecular Imaging To Evaluate Choroidal Neovascularization. ACS Sensors, 2020, 5, 3070-3081. | 7.8 | 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. International Journal of Molecular Sciences, 2020, 21, 6508. | 4.1 | 9 |
| 26 | Photo-Mediated Ultrasound Therapy for the Treatment of Corneal Neovascularization in Rabbit Eyes. Translational Vision Science and Technology, 2020, 9, 16. | 2.2 | 9 |
| 27 | Simultaneous photoacoustic microscopy, spectral-domain optical coherence tomography, and fluorescein microscopy multi-modality retinal imaging. Photoacoustics, 2020, 20, 100194. | 7.8 | 24 |
| 28 | Quantification of Retinal Nonperfusion and Neovascularization With Ultrawidefield Fluorescein Angiography in Patients With Diabetes and Associated Characteristics of Advanced Disease. JAMA Ophthalmology, 2020, 138, 680. | 2.5 | 19 |
| 29 | The Effect of Laser and Ultrasound Synchronization in Photo-Mediated Ultrasound Therapy. IEEE Transactions on Biomedical Engineering, 2020, 67, 3363-3370. | 4.2 | 16 |
| 30 | Optical coherence tomography and fluorescence microscopy dual-modality imaging for in vivo single-cell tracking with nanowire lasers. Biomedical Optics Express, 2020, 11, 3659. | 2.9 | 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. Lasers in Surgery and Medicine, 2020, 52, 984-992. | 2.1 | 6 |
| 34 | Ultralow energy photoacoustic microscopy for ocular imaging in vivo. Journal of Biomedical Optics, 2020, 25, 1. | 2.6 | 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 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 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-Threating 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. | 2.6 | 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. | 3.3 | 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. | 1.9 | 26 |
| 43 | Smartphone-Based, Rapid, Wide-Field Fundus Photography for Diagnosis of Pediatric Retinal Diseases. Translational Vision Science and Technology, 2019, 8, 29. | 2.2 | 34 |
| 44 | <p><Prefilled syringes for intravitreal drug delivery</p>. Clinical Ophthalmology, 2019, Volume 13, 701-706. | 1.8 | 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. | 3.3 | 45 |
| 46 | Anti-“Vascular Endothelial Growth Factor Therapy for Diabetic Retinopathy: Consequences of Inadvertent Treatment Interruptions. American Journal of Ophthalmology, 2019, 204, 13-18. | 3.3 | 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. | 1.7 | 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. Optics Letters, 2019, 44, 4063. | 3.3 | 9 |
| 56 | Novel Photoacoustic Microscopy and Optical Coherence Tomography Dual-modality Chorioretinal Imaging in Living Rabbit Eyes. Journal of Visualized Experiments, 2018, , . | 0.3 | 31 |
| 57 | Photoacoustic Ophthalmoscopy: Principle, Application, and Future Directions. Journal of Imaging, 2018, 4, 149. | 3.0 | 24 |
| 58 | In Vivo 3D Imaging of Retinal Neovascularization Using Multimodal Photoacoustic Microscopy and Optical Coherence Tomography Imaging. Journal of Imaging, 2018, 4, 150. | 3.0 | 20 |
| 59 | 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. | 16.6 | 77 |
| 60 | A Smartphone-Based Tool for Rapid, Portable, and Automated Wide-Field Retinal Imaging. Translational Vision Science and Technology, 2018, 7, 21. | 2.2 | 66 |
| 61 | Removal of choroidal vasculature using concurrently applied ultrasound bursts and nanosecond laser pulses. Scientific Reports, 2018, 8, 12848. | 3.3 | 17 |
| 62 | Preretinal hemorrhages following chiropractor neck manipulation. American Journal of Ophthalmology Case Reports, 2018, 11, 181-183. | 0.7 | 4 |
| 63 | Advances in Retinal Optical Imaging. Photonics, 2018, 5, 9. | 2.0 | 22 |
| 64 | Multi-wavelength, en-face photoacoustic microscopy and optical coherence tomography imaging for early and selective detection of laser induced retinal vein occlusion. Biomedical Optics Express, 2018, 9, 5915. | 2.9 | 30 |
| 65 | Novel Retinal Laser Therapies. International Journal of Ophthalmic Research, 2018, 4, 272-281. | 0.2 | 3 |
| 66 | Innovations in Retinal Laser Technology. Optics and Photonics Journal, 2018, 08, 173-186. | 0.4 | 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. Proceedings of SPIE, 2017, , . | 0.8 | 0 |
| 71 | High-precision, non-invasive anti-microvascular approach via concurrent ultrasound and laser irradiation. Scientific Reports, 2017, 7, 40243. | 3.3 | 27 |
| 72 | Effect of oral niacin on central retinal vein occlusion. Graefe's Archive for Clinical and Experimental Ophthalmology, 2017, 255, 1085-1092. | 1.9 | 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. | 3.1 | 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. | 5.2 | 2 |
| 75 | Noninvasive chorioretinal imaging in living rabbits using integrated photoacoustic microscopy and optical coherence tomography. <i>Optics Express</i> , 2017, 25, 15947. | 3.4 | 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. | 1.3 | 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. | 0.7 | 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. | 0.6 | 3 |
| 81 | Further Evidence That Cataract Surgery Is Not Associated With Macular Degeneration Progression. <i>JAMA Ophthalmology</i> , 2016, 134, 627. | 2.5 | 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. | 1.8 | 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. | 1.7 | 21 |
| 85 | High-resolution contrast-enhanced optical coherence tomography in mice retinae. <i>Journal of Biomedical Optics</i> , 2016, 21, 1. | 2.6 | 20 |
| 86 | Potentially Reversible Effect of Niacin Therapy on Edema From Retinal Vein Occlusion. <i>JAMA Ophthalmology</i> , 2016, 134, 839. | 2.5 | 5 |
| 87 | Reply. <i>American Journal of Ophthalmology</i> , 2016, 161, 216-217. | 3.3 | 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. | 0.7 | 1 |
| 90 | Serum Inflammatory Markers After Rupture Retinal Laser Injury in Mice. <i>Ophthalmic Surgery Lasers and Imaging Retina</i> , 2015, 46, 362-368. | 0.7 | 3 |

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|-----|--|-----|-----------|
| 91 | Pro-Permeability Factors After Dexamethasone Implant in Retinal Vein Occlusion; the Ozurdex for Retinal Vein Occlusion (ORVO) Study. American Journal of Ophthalmology, 2015, 160, 313-321.e19. | 3.3 | 35 |
| 92 | 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. | 0.7 | 1 |
| 93 | Multiple Myeloma Recurrence with Optic Nerve Infiltration Diagnosed by Vitrectomy, Immunohistochemistry, and in Situ Hybridization. European Journal of Ophthalmology, 2014, 24, 446-448. | 1.3 | 5 |
| 94 | Prevalence of diabetes mellitus in patients with newly evaluated papillary thyroid cancer. Thyroid Research, 2014, 7, 7. | 1.5 | 11 |
| 95 | Use of Fundus Autofluorescence to Evaluate Retinal Artery Occlusions. Retina, 2014, 34, 2490-2491. | 1.7 | 6 |
| 96 | Prefoveal Vitreous Condensation in Chronic Inflammation. Ophthalmic Surgery Lasers and Imaging Retina, 2014, 45, 447-450. | 0.7 | 8 |
| 97 | Abiotrophia defectiva causing infectious crystalline keratopathy and corneal ulcer after penetrating keratoplasty: a case report. Journal of Ophthalmic Inflammation and Infection, 2013, 3, 20. | 2.2 | 11 |
| 98 | Restoration of Retinal Structure and Function after Selective Photocoagulation. Journal of Neuroscience, 2013, 33, 6800-6808. | 3.6 | 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. Retina, 2013, 33, 63-70. | 1.7 | 6 |
| 102 | Persistent plus Disease after Laser in Retinopathy of Prematurity with Tetralogy of Fallot. European Journal of Ophthalmology, 2013, 23, 764-766. | 1.3 | 8 |
| 103 | IgG4-positive Sclerosing Orbital Inflammation Involving the Conjunctiva: A Case Report. Ocular Immunology and Inflammation, 2012, 20, 375-377. | 1.8 | 42 |
| 104 | Inexpensive, realtime tele-ultrasound using a commercial, web-based video streaming device. Journal of Telemedicine and Telecare, 2012, 18, 185-188. | 2.7 | 13 |
| 105 | ERG monitoring of retinal function during systemic chemotherapy for retinoblastoma. British Journal of Ophthalmology, 2012, 96, 877-880. | 3.9 | 21 |
| 106 | Retinal safety of near-infrared lasers in cataract surgery. Journal of Biomedical Optics, 2012, 17, 0950011. | 2.6 | 21 |
| 107 | Therapeutic Window of Retinal Photocoagulation With Green (532-nm) and Yellow (577-nm) Lasers. Ophthalmic Surgery Lasers and Imaging Retina, 2012, 43, 341-347. | 0.7 | 45 |
| 108 | Intra-arterial and Oral Digoxin Therapy for Retinoblastoma. Ophthalmic Genetics, 2011, 32, 147-150. | 1.2 | 22 |

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|-----|--|-----|-----------|
| 109 | SELECTIVE RETINAL THERAPY WITH MICROSECOND EXPOSURES USING A CONTINUOUS LINE SCANNING LASER. Retina, 2011, 31, 380-388. | 1.7 | 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. | 2.6 | 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. | 1.9 | 12 |
| 113 | Selective retinal therapy with a continuous line scanning laser. , 2010, , . | | 3 |
| 114 | Photoacoustic ocular imaging. Optics Letters, 2010, 35, 270. | 3.3 | 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. | 1.8 | 30 |
| 116 | Dynamics of retinal photocoagulation and rupture. Journal of Biomedical Optics, 2009, 14, 034007. | 2.6 | 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. | 2.4 | 164 |
| 122 | Patterned retinal coagulation with a scanning laser. , 2007, , . | | 1 |