

# George Asimellis

## List of Publications by Year in descending order

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Version: 2024-02-01

70  
papers

2,232  
citations

186254

28  
h-index

233409

45  
g-index

70  
all docs

70  
docs citations

70  
times ranked

1407  
citing authors

#	ARTICLE	IF	CITATIONS
1	Revisiting keratoconus diagnosis and progression classification based on evaluation of corneal asymmetry indices, derived from Scheimpflug imaging in keratoconic and suspect cases. <i>Clinical Ophthalmology</i> , 2013, 7, 1539.	1.8	149
2	Keratoconus Management: Long-Term Stability of Topography-Guided Normalization Combined With High-Fluence CXL Stabilization (The Athens Protocol). <i>Journal of Refractive Surgery</i> , 2014, 30, 88-93.	2.3	121
3	Development of a method for automated quantitative analysis of ores using LIBS. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2001, 56, 707-714.	2.9	101
4	In Vivo Three-Dimensional Corneal Epithelium Imaging in Normal Eyes by Anterior-Segment Optical Coherence Tomography. <i>Cornea</i> , 2013, 32, 1493-1498.	1.7	100
5	In Vivo 3-Dimensional Corneal Epithelial Thickness Mapping as an Indicator of Dry Eye: Preliminary Clinical Assessment. <i>American Journal of Ophthalmology</i> , 2014, 157, 63-68.e2.	3.3	100
6	Controlled inert gas environment for enhanced chlorine and fluorine detection in the visible and near-infrared by laser-induced breakdown spectroscopy. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2005, 60, 1132-1139.	2.9	85
7	Correlation between epithelial thickness in normal corneas, untreated ectatic corneas, and ectatic corneas previously treated with CXL; is overall epithelial thickness a very early ectasia prognostic factor?. <i>Clinical Ophthalmology</i> , 2012, 6, 789.	1.8	80
8	Customized hydrogel contact lenses for keratoconus incorporating correction for vertical coma aberration. <i>Ophthalmic and Physiological Optics</i> , 2009, 29, 321-329.	2.0	74
9	Combined laser in situ keratomileusis and prophylactic high-fluence corneal collagen crosslinking for high myopia: Two-year safety and efficacy. <i>Journal of Cataract and Refractive Surgery</i> , 2015, 41, 1426-1433.	1.5	67
10	Epithelial Remodeling After Femtosecond Laser-assisted High Myopic LASIK. <i>Cornea</i> , 2014, 33, 463-469.	1.7	62
11	OCT corneal epithelial topographic asymmetry as&nbsp;a sensitive diagnostic tool for early and advancing keratoconus. <i>Clinical Ophthalmology</i> , 2014, 8, 2277.	1.8	57
12	Refractive and Keratometric Stability in High Myopic LASIK With High-Frequency Femtosecond and Excimer Lasers. <i>Journal of Refractive Surgery</i> , 2013, 29, 832-837.	2.3	47
13	Erratum. <i>Journal of Refractive Surgery</i> , 2014, 30, 171-171.	2.3	46
14	Comparison of prophylactic higher fluence corneal cross-linking to control, in myopic LASIK,&nbsp;one year results. <i>Clinical Ophthalmology</i> , 2014, 8, 2373.	1.8	46
15	Toric Topographically Customized Transepithelial, Pulsed, Very High-Fluence, Higher Energy and Higher Riboflavin Concentration Collagen Cross-Linking in Keratoconus. <i>Case Reports in Ophthalmology</i> , 2014, 5, 172-180.	0.7	46
16	Comparison of high-resolution Scheimpflug and high-frequency ultrasound biomicroscopy to anterior-segment OCT corneal thickness measurements. <i>Clinical Ophthalmology</i> , 2013, 7, 2239.	1.8	42
17	Introduction of quantitative and qualitative cornea optical coherence tomography findings induced by collagen cross-linking for keratoconus: a novel effect measurement benchmark. <i>Clinical Ophthalmology</i> , 2013, 7, 329.	1.8	39
18	In pursuit of objective dry eye screening clinical techniques. <i>Eye and Vision (London, England)</i> , 2016, 3, 1.	3.0	38

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19	Comparison of Placido disc and Scheimpflug image-derived topography-guided excimer laser surface normalization combined with higher fluence CXL: the Athens Protocol, in progressive keratoconus. <i>Clinical Ophthalmology</i> , 2013, 7, 1385.	1.8	36
20	Anterior Segment Optical Coherence Tomography: Assisted Topographic Corneal Epithelial Thickness Distribution Imaging of a Keratoconus Patient. <i>Case Reports in Ophthalmology</i> , 2013, 4, 74-78.	0.7	35
21	Three-dimensional LASIK flap thickness variability: topographic central, paracentral and peripheral assessment, in flaps created by a mechanical microkeratome (M2) and two different femtosecond lasers (FS60 and FS200). <i>Clinical Ophthalmology</i> , 2013, 7, 675.	1.8	35
22	Epithelial remodeling after partial topography-guided normalization and high-fluence short-duration crosslinking (Athens protocol): Results up to 1 year. <i>Journal of Cataract and Refractive Surgery</i> , 2014, 40, 1597-1602.	1.5	35
23	Long-term bladeless LASIK outcomes with the FS200 Femtosecond and EX500 Excimer Laser workstation: the Refractive Suite. <i>Clinical Ophthalmology</i> , 2013, 7, 261.	1.8	34
24	Long-Term Safety and Efficacy of High-Fluence Collagen Crosslinking of the Vehicle Cornea in Boston Keratoprosthesis Type 1. <i>Cornea</i> , 2014, 33, 914-918.	1.7	34
25	Corneal Epithelial Remodeling Following Cataract Surgery: Three-Dimensional Investigation With Anterior-Segment Optical Coherence Tomography. <i>Journal of Refractive Surgery</i> , 2014, 30, 348-353.	2.3	32
26	New near-infrared LIBS detection technique for sulfur. <i>Analytical and Bioanalytical Chemistry</i> , 2006, 385, 333-337.	3.7	30
27	Clear-cornea cataract surgery: pupil size and shape changes, along with anterior chamber volume and depth changes. A Scheimpflug imaging study. <i>Clinical Ophthalmology</i> , 2014, 8, 2141.	1.8	30
28	OCT-Derived Comparison of Corneal Thickness Distribution and Asymmetry Differences Between Normal and Keratoconic Eyes. <i>Cornea</i> , 2014, 33, 1274-1281.	1.7	30
29	Platinum group metals bulk analysis in automobile catalyst recycling material by laser-induced breakdown spectroscopy. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2008, 63, 1338-1343.	2.9	28
30	Correlation Between Central Corneal Thickness, Anterior Chamber Depth, and Corneal Keratometry as Measured by Oculyzer II and WaveLight OB820 in Preoperative Cataract Surgery Patients. <i>Journal of Refractive Surgery</i> , 2012, 28, 895-900.	2.3	28
31	Anterior-Segment Optical Coherence Tomography Investigation of Corneal Deturgescence and Epithelial Remodeling After DSAEK. <i>Cornea</i> , 2014, 33, 340-348.	1.7	26
32	High-irradiance CXL combined with myopic LASIK: flap and residual stroma biomechanical properties studied ex-vivo. <i>British Journal of Ophthalmology</i> , 2015, 99, 870-874.	3.9	26
33	Forme Fruste Keratoconus Imaging and Validation via Novel Multi-Spot Reflection Topography. <i>Case Reports in Ophthalmology</i> , 2013, 4, 199-209.	0.7	25
34	Digital analysis of flap parameter accuracy and objective assessment of opaque bubble layer in femtosecond laser-assisted LASIK: a novel technique. <i>Clinical Ophthalmology</i> , 2013, 7, 343.	1.8	25
35	Distribution and Repeatability of Corneal Astigmatism Measurements (Magnitude and Axis) Evaluated With Color Light Emitting Diode Reflection Topography. <i>Cornea</i> , 2015, 34, 937-944.	1.7	24
36	LASIK Ablation Centration: An Objective Digitized Assessment and Comparison Between Two Generations of an Excimer Laser. <i>Journal of Refractive Surgery</i> , 2015, 31, 164-169.	2.3	23

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37	Incoherent-erasure joint-transform correlator. <i>Optics Letters</i> , 1995, 20, 2321.	3.3	22
38	Phosphate ore beneficiation via determination of phosphorus-to-silica ratios by Laser Induced Breakdown Spectroscopy. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2006, 61, 1253-1259.	2.9	22
39	Near-IR bromine Laser Induced Breakdown Spectroscopy detection and ambient gas effects on emission line asymmetric Stark broadening and shift. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2006, 61, 1270-1278.	2.9	22
40	Effects of saturation on the nonlinear incoherent-erasure joint-transform correlator. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 1996, 13, 1345.	1.5	21
41	Digital pupillometry and centroid shift changes after cataract surgery. <i>Journal of Cataract and Refractive Surgery</i> , 2015, 41, 408-414.	1.5	20
42	Cross-Linking Biomechanical Effect in Human Corneas by Same Energy, Different UV-A Fluence. <i>Cornea</i> , 2016, 35, 557-561.	1.7	20
43	Novel Placido-derived Topography-guided Excimer Corneal Normalization With Cyclorotation Adjustment: Enhanced Athens Protocol for Keratoconus. <i>Journal of Refractive Surgery</i> , 2015, 31, 768-773.	2.3	20
44	Hyperopic correction: clinical validation with epithelium-on and epithelium-off protocols, using variable fluence and topographically customized collagen corneal crosslinking. <i>Clinical Ophthalmology</i> , 2014, 8, 2425.	1.8	19
45	Standard manual capsulorhexis / Ultrasound phacoemulsification compared to femtosecond laser-assisted capsulorhexis and lens fragmentation in clear cornea small incision cataract surgery. <i>Eye and Vision (London, England)</i> , 2016, 3, 20.	3.0	19
46	Influence of Corneal Cross-linking for Keratoconus on Several Objective Parameters of Dry Eye. <i>Journal of Refractive Surgery</i> , 2013, 29, 612-616.	2.3	19
47	Corneal Refractive Power and Symmetry Changes Following Normalization of Ectasias Treated With Partial Topography-Guided PTK Combined With Higher-Fluence CXL (The Athens Protocol). <i>Journal of Refractive Surgery</i> , 2014, 30, 342-346.	2.3	17
48	Clinical Correlation between Placido, Scheimpflug and LED Color Reflection Topographies in Imaging of a Scarred Cornea. <i>Case Reports in Ophthalmology</i> , 2014, 5, 311-317.	0.7	16
49	Evaluation of Visual Acuity, Pachymetry and Anterior-Surface Irregularity in Keratoconus and Crosslinking Intervention Follow-up in 737 Cases. <i>International Journal of Keratoconus and Ectatic Corneal Diseases</i> , 2013, 2, 95-103.	0.5	16
50	Color light-emitting diode reflection topography: validation of keratometric repeatability in a large sample of wide cylindrical-range corneas. <i>Clinical Ophthalmology</i> , 2015, 9, 245.	1.8	15
51	All-optical nonlinear joint Fourier transform correlator. <i>Applied Optics</i> , 1994, 33, 8216.	2.1	13
52	Nonlinear compensative noise reduction in joint transform correlators. <i>Optical Engineering</i> , 1998, 37, 66.	1.0	12
53	Essential opaque bubble layer elimination with novel LASIK flap settings in the FS200 Femtosecond Laser. <i>Clinical Ophthalmology</i> , 2013, 7, 765.	1.8	12
54	Objective Evaluation of Planned Versus Achieved Stromal Thickness Reduction in Myopic Femtosecond Laser-assisted LASIK. <i>Journal of Refractive Surgery</i> , 2015, 31, 628-632.	2.3	11

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55	Rapid, automated measurement of layer thicknesses on steel coin blanks using laser-induced-breakdown spectroscopy depth profiling. <i>Applied Optics</i> , 2007, 46, 935.	2.1	10
56	Corneal Collagen Cross-linking Combined With Simulation of Femtosecond Laser-Assisted Refractive Lens Extraction. <i>Cornea</i> , 2015, 34, 550-556.	1.7	10
57	Optical coherence tomography-derived corneal thickness asymmetry indices: Clinical reference study of normal eyes. <i>Journal of Cataract and Refractive Surgery</i> , 2014, 40, 1603-1609.	1.5	9
58	Analysis of the dual discrimination ability of the two-port photorefractive joint transform correlator. <i>Applied Optics</i> , 1995, 34, 8154.	2.1	8
59	FS200 femtosecond laser LASIK flap digital analysis parameter evaluation: comparing two different types of patient interface ablation cones. <i>Clinical Ophthalmology</i> , 2013, 7, 1103.	1.8	8
60	Presbyopic PiXL Cross-Linking. <i>Current Ophthalmology Reports</i> , 2015, 3, 1-8.	1.2	7
61	Higher incidence of steroid-induced ocular hypertension in keratoconus. <i>Eye and Vision (London, England)</i> 10.7843/1471-2238.2017.00007	3.0	7
62	Accurate wavelength calibration in the near-infrared for multielement analysis without the need for reference spectra. <i>Applied Optics</i> , 2006, 45, 8855.	2.1	6
63	Reply. <i>American Journal of Ophthalmology</i> , 2014, 157, 1116-1117.	3.3	4
64	Cross-Linking and Corneal Imaging Advances. <i>BioMed Research International</i> , 2015, 2015, 1-3.	1.9	4
65	Two-port photorefractive joint-transform correlator. <i>Optics Letters</i> , 1995, 20, 2517.	3.3	3
66	Combined Corneal Cross Linking and Other Procedures: Indications and Application Models. , 2017, , 87-165.		2
67	<title>Photorefractive incoherent-erasure joint transform correlator</title>. , 1996, , .		1
68	Epithelial remodeling following myopic LASIK. <i>Journal of Refractive Surgery</i> , 2014, 30, 802-5.	2.3	1
69	Topografisch angepasste torische transepitheliale, gepulste Kollagenvernetzung mit hoher Fluenz, höherer Energie und höherer Riboflavin-Konzentration zur Behandlung des Keratokonus. <i>Karger Kompass Ophthalmologie</i> , 2015, 1, 41-46.	0.0	0
70	Health profession readiness for interprofessional education in the Central Appalachia: a cross-sectional study. <i>F1000Research</i> , 0, 10, 553.	1.6	0