

# George Asimellis

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

67  
papers

1,821  
citations

25  
h-index

39  
g-index

70  
ext. papers

2,023  
ext. citations

2.8  
avg. IF

5.44  
L-index

| #  | Paper   | IF  | Citations |
|----|---|-----|-----------|
| 67 | 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> , <b>2013</b> , 7, 1539-48                             | 2.5 | 116       |
| 66 | Keratoconus management: long-term stability of topography-guided normalization combined with high-fluence CXL stabilization (the Athens Protocol). <i>Journal of Refractive Surgery</i> , <b>2014</b> , 30, 88-93   | 3.3 | 97        |
| 65 | Development of a method for automated quantitative analysis of ores using LIBS. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , <b>2001</b> , 56, 707-714   | 3.1 | 96        |
| 64 | In vivo three-dimensional corneal epithelium imaging in normal eyes by anterior-segment optical coherence tomography: a clinical reference study. <i>Cornea</i> , <b>2013</b> , 32, 1493-8  | 3.1 | 80        |
| 63 | In vivo 3-dimensional corneal epithelial thickness mapping as an indicator of dry eye: preliminary clinical assessment. <i>American Journal of Ophthalmology</i> , <b>2014</b> , 157, 63-68.e2  | 4.9 | 77        |
| 62 | 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> , <b>2005</b> , 60, 1132-1139                             | 3.1 | 76        |
| 61 | 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> , <b>2012</b> , 6, 789-800 | 2.5 | 62        |
| 60 | Customized hydrogel contact lenses for keratoconus incorporating correction for vertical coma aberration. <i>Ophthalmic and Physiological Optics</i> , <b>2009</b> , 29, 321-9  | 4.1 | 60        |
| 59 | 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> , <b>2015</b> , 41, 1426-33  | 3.3 | 53        |
| 58 | Epithelial remodeling after femtosecond laser-assisted high myopic LASIK: comparison of stand-alone with LASIK combined with prophylactic high-fluence cross-linking. <i>Cornea</i> , <b>2014</b> , 33, 463-9   | 3.1 | 50        |
| 57 | Refractive and keratometric stability in high myopic LASIK with high-frequency femtosecond and excimer lasers. <i>Journal of Refractive Surgery</i> , <b>2013</b> , 29, 832-7   | 3.3 | 41        |
| 56 | OCT corneal epithelial topographic asymmetry as a sensitive diagnostic tool for early and advancing keratoconus. <i>Clinical Ophthalmology</i> , <b>2014</b> , 8, 2277-87   | 2.5 | 38        |
| 55 | Longitudinal postoperative lasik epithelial thickness profile changes in correlation with degree of myopia correction. <i>Journal of Refractive Surgery</i> , <b>2014</b> , 30, 166-71  | 3.3 | 38        |
| 54 | 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> , <b>2014</b> , 5, 172-80                                      | 0.7 | 37        |
| 53 | Comparison of prophylactic higher fluence corneal cross-linking to control, in myopic LASIK, one year results. <i>Clinical Ophthalmology</i> , <b>2014</b> , 8, 2373-81   | 2.5 | 36        |
| 52 | 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> , <b>2013</b> , 7, 329-35                                | 2.5 | 35        |
| 51 | Comparison of high-resolution Scheimpflug and high-frequency ultrasound biomicroscopy to anterior-segment OCT corneal thickness measurements. <i>Clinical Ophthalmology</i> , <b>2013</b> , 7, 2239-47  | 2.5 | 35        |

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|----|--|-----|----|
| 50 | Long-term bladeless LASIK outcomes with the FS200 Femtosecond and EX500 Excimer Laser workstation: the Refractive Suite. <i>Clinical Ophthalmology</i> , <b>2013</b> , 7, 261-9  | 2.5 | 32 |
| 49 | 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> , <b>2013</b> , 7, 675-83 | 2.5 | 32 |
| 48 | 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> , <b>2013</b> , 7, 1385-96                         | 2.5 | 32 |
| 47 | Anterior segment optical coherence tomography: assisted topographic corneal epithelial thickness distribution imaging of a keratoconus patient. <i>Case Reports in Ophthalmology</i> , <b>2013</b> , 4, 74-8   | 0.7 | 30 |
| 46 | New near-infrared LIBS detection technique for sulfur. <i>Analytical and Bioanalytical Chemistry</i> , <b>2006</b> , 385, 333-7  | 4.4 | 30 |
| 45 | In pursuit of objective dry eye screening clinical techniques. <i>Eye and Vision (London, England)</i> , <b>2016</b> , 3, 1  | 4.9 | 27 |
| 44 | Long-term safety and efficacy of high-fluence collagen crosslinking of the vehicle cornea in Boston keratoprosthesis type 1. <i>Cornea</i> , <b>2014</b> , 33, 914-8   | 3.1 | 27 |
| 43 | High-irradiance CXL combined with myopic LASIK: flap and residual stroma biomechanical properties studied ex-vivo. <i>British Journal of Ophthalmology</i> , <b>2015</b> , 99, 870-4   | 5.5 | 25 |
| 42 | Platinum group metals bulk analysis in automobile catalyst recycling material by laser-induced breakdown spectroscopy. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , <b>2008</b> , 63, 1338-1343   | 3.1 | 25 |
| 41 | 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> , <b>2012</b> , 28, 895-900                          | 3.3 | 24 |
| 40 | 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> , <b>2014</b> , 40, 1597-602   | 2.3 | 22 |
| 39 | Forme Fruste Keratoconus Imaging and Validation via Novel Multi-Spot Reflection Topography. <i>Case Reports in Ophthalmology</i> , <b>2013</b> , 4, 199-209  | 0.7 | 22 |
| 38 | 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> , <b>2013</b> , 7, 343-51  | 2.5 | 22 |
| 37 | 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> , <b>2014</b> , 8, 2141-50   | 2.5 | 21 |
| 36 | Corneal epithelial remodeling following cataract surgery: three-dimensional investigation with anterior-segment optical coherence tomography. <i>Journal of Refractive Surgery</i> , <b>2014</b> , 30, 348-53  | 3.3 | 21 |
| 35 | OCT-derived comparison of corneal thickness distribution and asymmetry differences between normal and keratoconic eyes. <i>Cornea</i> , <b>2014</b> , 33, 1274-81  | 3.1 | 20 |
| 34 | Anterior-segment optical coherence tomography investigation of corneal deturgescence and epithelial remodeling after DSAEK. <i>Cornea</i> , <b>2014</b> , 33, 340-8  | 3.1 | 20 |
| 33 | Phosphate ore beneficiation via determination of phosphorus-to-silica ratios by Laser Induced Breakdown Spectroscopy. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , <b>2006</b> , 61, 1253-1259  | 3.1 | 20 |

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|----|---|-----|----|
| 32 | 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> , <b>2006</b> , 61, 1270-1278                      | 3.1 | 20 |
| 31 | Distribution and Repeatability of Corneal Astigmatism Measurements (Magnitude and Axis) Evaluated With Color Light Emitting Diode Reflection Topography. <i>Cornea</i> , <b>2015</b> , 34, 937-44   | 3.1 | 19 |
| 30 | Incoherent-erasure joint-transform correlator. <i>Optics Letters</i> , <b>1995</b> , 20, 2321   | 3   | 19 |
| 29 | LASIK ablation centration: an objective digitized assessment and comparison between two generations of an excimer laser. <i>Journal of Refractive Surgery</i> , <b>2015</b> , 31, 164-9   | 3.3 | 19 |
| 28 | Hyperopic correction: clinical validation with epithelium-on and epithelium-off protocols, using variable fluence and topographically customized collagen corneal crosslinking. <i>Clinical Ophthalmology</i> , <b>2014</b> , 8, 2425-33                  | 2.5 | 18 |
| 27 | Novel Placido-derived Topography-guided Excimer Corneal Normalization With Cyclorotation Adjustment: Enhanced Athens Protocol for Keratoconus. <i>Journal of Refractive Surgery</i> , <b>2015</b> , 31, 768-73  | 3.3 | 18 |
| 26 | Influence of corneal cross-linking for keratoconus on several objective parameters of dry eye. <i>Journal of Refractive Surgery</i> , <b>2013</b> , 29, 612-6   | 3.3 | 15 |
| 25 | Cross-Linking Biomechanical Effect in Human Corneas by Same Energy, Different UV-A Fluence: An Enzymatic Digestion Comparative Evaluation. <i>Cornea</i> , <b>2016</b> , 35, 557-61   | 3.1 | 15 |
| 24 | 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> , <b>2016</b> , 3, 20 | 4.9 | 15 |
| 23 | Clinical Correlation between Placido, Scheimpflug and LED Color Reflection Topographies in Imaging of a Scarred Cornea. <i>Case Reports in Ophthalmology</i> , <b>2014</b> , 5, 311-7   | 0.7 | 14 |
| 22 | Color light-emitting diode reflection topography: validation of keratometric repeatability in a large sample of wide cylindrical-range corneas. <i>Clinical Ophthalmology</i> , <b>2015</b> , 9, 245-52   | 2.5 | 14 |
| 21 | Digital pupillometry and centroid shift changes after cataract surgery. <i>Journal of Cataract and Refractive Surgery</i> , <b>2015</b> , 41, 408-14  | 2.3 | 13 |
| 20 | 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> , <b>1996</b> , 13, 1345   | 1.8 | 13 |
| 19 | 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> , <b>2013</b> , 2, 95-103         | 0   | 13 |
| 18 | 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> , <b>2014</b> , 30, 342-6       | 3.3 | 12 |
| 17 | All-optical nonlinear joint Fourier transform correlator. <i>Applied Optics</i> , <b>1994</b> , 33, 8216-25   | 1.7 | 11 |
| 16 | Corneal collagen cross-linking combined with simulation of femtosecond laser-assisted refractive lens extraction: an ex vivo biomechanical effect evaluation. <i>Cornea</i> , <b>2015</b> , 34, 550-6   | 3.1 | 10 |
| 15 | Rapid, automated measurement of layer thicknesses on steel coin blanks using laser-induced-breakdown spectroscopy depth profiling. <i>Applied Optics</i> , <b>2007</b> , 46, 935-42   | 1.7 | 10 |

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|----|---|-----|---|
| 14 | FS200 femtosecond laser LASIK flap digital analysis parameter evaluation: comparing two different types of patient interface applanation cones. <i>Clinical Ophthalmology</i> , <b>2013</b> , 7, 1103-8   | 2.5 | 8 |
| 13 | Essential opaque bubble layer elimination with novel LASIK flap settings in the FS200 Femtosecond Laser. <i>Clinical Ophthalmology</i> , <b>2013</b> , 7, 765-70  | 2.5 | 8 |
| 12 | Presbyopic PiXL Cross-Linking. <i>Current Ophthalmology Reports</i> , <b>2015</b> , 3, 1-8  | 1.8 | 7 |
| 11 | Nonlinear compansive noise reduction in joint transform correlators. <i>Optical Engineering</i> , <b>1998</b> , 37, 66  | 1.1 | 7 |
| 10 | Analysis of the dual discrimination ability of the two-port photorefractive joint transform correlator. <i>Applied Optics</i> , <b>1995</b> , 34, 8154-66   | 1.7 | 7 |
| 9  | Objective Evaluation of Planned Versus Achieved Stromal Thickness Reduction in Myopic Femtosecond Laser-assisted LASIK. <i>Journal of Refractive Surgery</i> , <b>2015</b> , 31, 628-32   | 3.3 | 7 |
| 8  | Higher incidence of steroid-induced ocular hypertension in keratoconus. <i>Eye and Vision (London, England)</i> , <b>2016</b> , 3, 4  | 4.9 | 6 |
| 7  | Optical coherence tomography-derived corneal thickness asymmetry indices: clinical reference study of normal eyes. <i>Journal of Cataract and Refractive Surgery</i> , <b>2014</b> , 40, 1603-9   | 2.3 | 6 |
| 6  | Accurate wavelength calibration in the near-infrared for multielement analysis without the need for reference spectra. <i>Applied Optics</i> , <b>2006</b> , 45, 8855-62  | 1.7 | 6 |
| 5  | Reply: To PMID 24200234. <i>American Journal of Ophthalmology</i> , <b>2014</b> , 157, 1116-7   | 4.9 | 4 |
| 4  | Two-port photorefractive joint-transform correlator. <i>Optics Letters</i> , <b>1995</b> , 20, 2517   | 3   | 2 |
| 3  | Combined Corneal Cross Linking and Other Procedures: Indications and Application Models <b>2017</b> , 87-165  |     | 1 |
| 2  | Topografisch angepasste torische transepitheliale, gepulste Kollagenvernetzung mit hoher Fluenz, höherer Energie und höherer Riboflavin-Konzentration zur Behandlung des Keratokonus. <i>Karger Kompass Ophthalmologie</i> , <b>2015</b> , 1, 41-46 | 0   |   |
| 1  | Health profession readiness for interprofessional education in the Central Appalachia: a cross-sectional study. <i>F1000Research</i> , 10, 553  | 3.6 |   |