

# Yan Wang

## List of Publications by Year in descending order

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85  
papers

1,586  
citations

394421

19  
h-index

361022

35  
g-index

94  
all docs

94  
docs citations

94  
times ranked

1056  
citing authors

#	ARTICLE	IF	CITATIONS
1	Understanding the role of corneal biomechanics-associated genetic variants by bioinformatic analyses. <i>International Ophthalmology</i> , 2022, 42, 981-988.	1.4	5
2	Posterior corneal elevation changes and characteristic analysis 1Âyear after corneal collagen cross-linking for keratoconus. <i>International Ophthalmology</i> , 2022, 42, 1457-1468.	1.4	1
3	Comprehensive Transcriptome Analysis of Patients With Keratoconus Highlights the Regulation of Immune Responses and Inflammatory Processes. <i>Frontiers in Genetics</i> , 2022, 13, 782709.	2.3	7
4	Wearing face masks and possibility for dry eye during the COVID-19 pandemic. <i>Scientific Reports</i> , 2022, 12, 6214.	3.3	15
5	Predictive factors of posterior corneal shift afterÂsmall incision lenticule extraction: a 5Âyear followâ€up study. <i>Acta Ophthalmologica</i> , 2022, , .	1.1	1
6	Changes in Refractive Error Under COVID-19: A 3-Year Follow-up Study. <i>Advances in Therapy</i> , 2022, 39, 2999-3010.	2.9	7
7	Applying Information Gain to Explore Factors Affecting Small-Incision Lenticule Extraction: A Multicenter Retrospective Study. <i>Frontiers in Medicine</i> , 2022, 9, 837092.	2.6	0
8	Corneal and scleral biomechanics in ophthalmic diseases: An updated review. <i>Medicine in Novel Technology and Devices</i> , 2022, 15, 100140.	1.6	6
9	Association of Axial Length and Refraction with Near Horizontal Heterophoria in Chinese Children: An Observational Cross-Sectional Study. <i>Journal of Ophthalmology</i> , 2022, 2022, 1-7.	1.3	1
10	Accommodation changes after strabismus surgery due to anterior ciliary vessel disruption. <i>Graefe's Archive for Clinical and Experimental Ophthalmology</i> , 2021, 259, 527-532.	1.9	0
11	Quantitative Analysis of Human Corneal Lenticule Surface Microstructure Irregularity with 3D Optical Profiler Using White Light Interferometry. <i>Current Eye Research</i> , 2021, 46, 461-469.	1.5	2
12	Distribution and analysis of intraocular pressure and its possible association with glaucoma in children. <i>International Ophthalmology</i> , 2021, 41, 2817-2825.	1.4	4
13	Influence of corneal shape parameters on corneal deformation responses measured with a Scheimpflug camera. <i>International Ophthalmology</i> , 2021, 41, 2853-2859.	1.4	1
14	Quantitative Evaluation of Aerosol Generation from Non-contact Tonometry and its Correlation with Tear Film Characteristics. <i>Advances in Therapy</i> , 2021, 38, 3066-3076.	2.9	3
15	Association Between Severity of Myopia and Deformation Characteristics of the Cornea Based on Propensity Score Matching Analysis. <i>Journal of Refractive Surgery</i> , 2021, 37, 344-350.	2.3	3
16	The Implications on Future Ophthalmic Care During and Post-COVID-19. <i>Frontiers in Public Health</i> , 2021, 9, 653708.	2.7	3
17	Effects of varying illumination on ocular aberrations and aberration compensation before and after small incision Lenticule extraction: a prospective cohort study. <i>BMC Ophthalmology</i> , 2021, 21, 336.	1.4	0
18	Direct Evidence of Symmetry between Bilateral Human Corneas in Biomechanical Properties: A Comparison Study with Fresh Corneal Tissue. <i>Journal of Ophthalmology</i> , 2021, 2021, 1-7.	1.3	6

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19	Changes in Corneal Morphology with Age in Asian Population: A Multicenter Study of 30,618 Cases. <i>Advances in Therapy</i> , 2021, 38, 5763-5776.	2.9	5
20	Applying Machine Learning Techniques in Nomogram Prediction and Analysis for SMILE Treatment. <i>American Journal of Ophthalmology</i> , 2020, 210, 71-77.	3.3	32
21	Comparative analysis of biomechanically corrected intraocular pressure with corneal visualization Scheimpflug technology versus conventional noncontact intraocular pressure. <i>International Ophthalmology</i> , 2020, 40, 117-124.	1.4	12
22	Corneal refractive surgery combined with simultaneous corneal cross-linking: Indications, protocols and clinical outcomes—A review. <i>Clinical and Experimental Ophthalmology</i> , 2020, 48, 78-88.	2.6	2
23	Characterization of hyperelastic mechanical properties for youth corneal anterior central stroma based on collagen fibril crimping constitutive model. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2020, 103, 103575.	3.1	17
24	Effect of biomechanical properties on myopia: a study of new corneal biomechanical parameters. <i>BMC Ophthalmology</i> , 2020, 20, 459.	1.4	27
25	Inverse solution of corneal material parameters based on non-contact tonometry: A comparative study of different constitutive models. <i>Journal of Biomechanics</i> , 2020, 112, 110055.	2.1	5
26	Hypersensitivity reactions after femtosecond laser small incision lenticule extraction: a case report of corneal infiltrates. <i>Allergy, Asthma and Clinical Immunology</i> , 2020, 16, 101.	2.0	1
27	Clinical outcomes of corneal refractive surgery comparing centration on the corneal vertex with the pupil center: a meta-analysis. <i>International Ophthalmology</i> , 2020, 40, 3555-3563.	1.4	11
28	Vitamin D deficiency is associated with dry eye syndrome: a systematic review and meta-analysis. <i>Acta Ophthalmologica</i> , 2020, 98, 749-754.	1.1	29
29	The Effect of Intraoperative Angle Kappa Adjustment on Higher-Order Aberrations Before and After Small Incision Lenticule Extraction. <i>Cornea</i> , 2020, 39, 609-614.	1.7	12
30	Changes in Corneal Volume at Different Areas and Its Correlation with Corneal Biomechanics after SMILE and FS-LASIK Surgery. <i>Journal of Ophthalmology</i> , 2020, 2020, 1-7.	1.3	9
31	Changes and quantitative characterization of hyper-viscoelastic biomechanical properties for young corneal stroma after standard corneal cross-linking treatment with different ultraviolet-A energies. <i>Acta Biomaterialia</i> , 2020, 113, 438-451.	8.3	15
32	Biomechanical effect of ultraviolet-A-riboflavin cross-linking on simulated human corneal stroma model and its correlation with changes in corneal stromal microstructure. <i>Experimental Eye Research</i> , 2020, 197, 108109.	2.6	11
33	Effects of the LASIK flap thickness on corneal biomechanical behavior: a finite element analysis. <i>BMC Ophthalmology</i> , 2020, 20, 67.	1.4	13
34	Theoretical Analysis of Wave-Front Aberrations Induced from Conventional Laser Refractive Surgery in a Biomechanical Finite Element Model. , 2020, 61, 34.		13
35	Influence of Preoperative Keratometry on Refractive Outcomes for Myopia Correction With Small Incision Lenticule Extraction. <i>Journal of Refractive Surgery</i> , 2020, 36, 374-379.	2.3	10
36	Comparison of Corneal Biomechanics Between Low and High Myopic Eyes—A Meta-analysis. <i>American Journal of Ophthalmology</i> , 2019, 207, 419-425.	3.3	22

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37	2',3'-Cyclic nucleotide 3'-phosphodiesterase contributes to epithelial-mesenchymal transition of lens epithelial cells through the notch signalling pathway. <i>Cell Proliferation</i> , 2019, 52, e12707.	5.3	6
38	Analysis of Ocular Injury Characteristics in Survivors of the 8.12 Tianjin Port Explosion, China. <i>Journal of Ophthalmology</i> , 2019, 2019, 1-7.	1.3	4
39	Efficacy and safety of extended depth of focus intraocular lenses in cataract surgery: a systematic review and meta-analysis. <i>BMC Ophthalmology</i> , 2019, 19, 198.	1.4	70
40	Cover Image, Volume 52, Issue 6. <i>Cell Proliferation</i> , 2019, 52, e12733.	5.3	0
41	Corneal remodeling and spatial profiles following small incision lenticule extraction. <i>International Ophthalmology</i> , 2019, 39, 1827-1836.	1.4	3
42	Optical quality comparison between laser ablated myopic eyes with centration on coaxially sighted corneal light reflex and on entrance pupil center. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2019, 36, B103.	1.5	8
43	Postoperative Corneal Complications in Small Incision Lenticule Extraction: Long-Term Study. <i>Journal of Refractive Surgery</i> , 2019, 35, 146-152.	2.3	22
44	Corneal Stiffness and Its Relationship With Other Corneal Biomechanical and Nonbiomechanical Parameters in Myopic Eyes of Chinese Patients. <i>Cornea</i> , 2018, 37, 881-885.	1.7	16
45	Dry eye evaluation and correlation analysis between tear film stability and corneal surface regularity after small incision lenticule extraction. <i>International Ophthalmology</i> , 2018, 38, 2283-2288.	1.4	11
46	Corneal thickness, residual stromal thickness, and its effect on opaque bubble layer in small-incision lenticule extraction. <i>International Ophthalmology</i> , 2018, 38, 2013-2020.	1.4	9
47	Adjuvant collagen crosslinking for treatment of epithelial ingrowth after small incision lenticule extraction. <i>Clinical and Experimental Ophthalmology</i> , 2018, 46, 554-556.	2.6	5
48	Preliminary Investigation of the Mechanical Anisotropy of the Normal Human Corneal Stroma. <i>Journal of Ophthalmology</i> , 2018, 2018, 1-7.	1.3	12
49	Biomechanics and structure of the cornea: implications and association with corneal disorders. <i>Survey of Ophthalmology</i> , 2018, 63, 851-861.	4.0	96
50	Effect of Timing of Initial Cataract Surgery, Compliance to Amblyopia Therapy on Outcomes of Secondary Intraocular Lens Implantation in Chinese Children: A Retrospective Case Series. <i>Journal of Ophthalmology</i> , 2018, 2018, 1-7.	1.3	6
51	Distribution and Trends in Corneal Thickness Parameters in a Large Population-Based Multicenter Study of Young Chinese Adults. , 2018, 59, 3366.		12
52	Tensile biomechanical properties and constitutive parameters of human corneal stroma extracted by SMILE procedure. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2018, 85, 102-108.	3.1	14
53	Energy Setting and Visual Outcomes in SMILE: A Retrospective Cohort Study. <i>Journal of Refractive Surgery</i> , 2018, 34, 11-16.	2.3	29
54	Comparison of ocular higher-order aberrations after SMILE and Wavefront-guided Femtosecond LASIK for myopia. <i>BMC Ophthalmology</i> , 2017, 17, 42.	1.4	46

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55	Notch-4 silencing inhibits prostate cancer growth and EMT via the NF- $\kappa$ B pathway. Apoptosis: an International Journal on Programmed Cell Death, 2017, 22, 877-884.	4.9	47
56	Incidence and management of intraoperative complications during small-incision lenticule extraction in 3004 cases. Journal of Cataract and Refractive Surgery, 2017, 43, 796-802.	1.5	57
57	Detailed Distribution of Corneal Epithelial Thickness and Correlated Characteristics Measured with SD-OCT in Myopic Eyes. Journal of Ophthalmology, 2017, 2017, 1-8.	1.3	17
58	Corneal Spherical Aberration and Corneal Asphericity after Small Incision Lenticule Extraction and Femtosecond Laser-Assisted LASIK. Journal of Ophthalmology, 2017, 2017, 1-7.	1.3	15
59	Risk Factors for Opaque Bubble Layer in Small Incision Lenticule Extraction (SMILE). Journal of Refractive Surgery, 2017, 33, 759-764.	2.3	19
60	Corneal Epithelial Remodeling and Its Effect on Corneal Asphericity after Transepithelial Photorefractive Keratectomy for Myopia. Journal of Ophthalmology, 2016, 2016, 1-7.	1.3	29
61	Comparison of the Optical Quality between Small Incision Lenticule Extraction and Femtosecond Laser LASIK. Journal of Ophthalmology, 2016, 2016, 1-9.	1.3	15
62	Corneal Higher-Order Aberrations of the Anterior Surface, Posterior Surface, and Total Cornea After SMILE, FS-LASIK, and FLEx Surgeries. Eye and Contact Lens, 2016, 42, 358-365.	1.6	42
63	Ultrastructural Changes and Corneal Wound Healing After SMILE and PRK Procedures. Current Eye Research, 2016, 41, 1316-1325.	1.5	26
64	Short-term Variance of Refractive Outcomes After Simultaneous LASIK and High-Fluence Cross-linking in High Myopic Correction. Journal of Refractive Surgery, 2016, 32, 664-670.	2.3	10
65	Comparison of Corneal Biomechanical Characteristics After Surface Ablation Refractive Surgery and Novel Lamellar Refractive Surgery. Cornea, 2015, 34, 1441-1446.	1.7	36
66	The Correlation Analysis between Corneal Biomechanical Properties and the Surgically Induced Corneal High-Order Aberrations after Small Incision Lenticule Extraction and Femtosecond Laser In Situ Keratomileusis. Journal of Ophthalmology, 2015, 2015, 1-10.	1.3	27
67	Vector analysis of low to moderate astigmatism with small incision lenticule extraction (SMILE): results of a 1-year follow-up. BMC Ophthalmology, 2015, 15, 8.	1.4	63
68	Short-term and long-term effects of small incision lenticule extraction (SMILE) on corneal endothelial cells. Contact Lens and Anterior Eye, 2015, 38, 334-338.	1.7	15
69	Aberration compensation between anterior and posterior corneal surfaces after Small incision lenticule extraction and Femtosecond laser-assisted laser <i>in situ</i> keratomileusis. Ophthalmic and Physiological Optics, 2015, 35, 540-551.	2.0	31
70	Comparison of Forward Light Scatter Changes Between SMILE, Femtosecond Laser-assisted LASIK, and Epipolis LASIK: Results of a 1-Year Prospective Study. Journal of Refractive Surgery, 2015, 31, 752-758.	2.3	17
71	Corneal biomechanical effects: Small-incision lenticule extraction versus femtosecond laser-assisted laser in situ keratomileusis. Journal of Cataract and Refractive Surgery, 2014, 40, 954-962.	1.5	156
72	Meta-analysis of Pentacam vs. ultrasound pachymetry in central corneal thickness measurement in normal, post-LASIK or PRK, and keratoconic or keratoconus-suspect eyes. Graefe's Archive for Clinical and Experimental Ophthalmology, 2014, 252, 91-99.	1.9	31

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73	Intraocular Pressure and Associations in Children. The Gobi Desert Children Eye Study. PLoS ONE, 2014, 9, e109355.	2.5	16
74	Comparison of corneal sensitivity between FS-LASIK and femtosecond lenticule extraction (ReLEx flex) or small-incision lenticule extraction (ReLEx smile) for myopic eyes. Graefe's Archive for Clinical and Experimental Ophthalmology, 2013, 251, 1645-1654.	1.9	94
75	Ocular higher-order aberration features 10 years after photorefractive keratectomy. International Ophthalmology, 2013, 33, 651-657.	1.4	5
76	Intraocular Straylight After Thin-Flap LASIK With a Femtosecond Laser Versus a Mechanical Microkeratome. Journal of Refractive Surgery, 2013, 29, 534-539.	2.3	4
77	Higher Order Aberrations and Low Contrast Vision Function in Myopic Eyes ( $\sim 3.00$ to $\sim 6.00$ D) Under Mesopic Conditions. Journal of Refractive Surgery, 2011, 27, 127-134.	2.3	16
78	The study of the effects of higher-order aberrations on human contrast sensitivity with white-light retinal aerial image modulation (AIM). Optik, 2010, 121, 1116-1122.	2.9	4
79	The aberration and the modulation transfer function in LASEK and LASIK: Pupil size dependence. Optik, 2010, 121, 500-505.	2.9	4
80	The Shape of Posterior Corneal Surface in Normal, Post-LASIK, and Post-epi-LASIK Eyes. , 2010, 51, 3468.		35
81	Optical Quality Analysis After Surface Excimer Laser Ablation: The Relationship Between Wavefront Aberration and Subepithelial Haze. Journal of Refractive Surgery, 2006, 22, .	2.3	4
82	Optical quality analysis after surface excimer laser ablation: the relationship between wavefront aberration and subepithelial haze. Journal of Refractive Surgery, 2006, 22, S1031-6.	2.3	2
83	Changes of higher order aberration with various pupil sizes in the myopic eye. Journal of Refractive Surgery, 2003, 19, S270-4.	2.3	66
84	The Wound Healing Responses and Corneal Biomechanics after Keratorefractive Surgery. , 0, , .		0
85	Measuring Human Corneal Stromal Biomechanical Properties Using Tensile Testing Combined With Optical Coherence Tomography. Frontiers in Bioengineering and Biotechnology, 0, 10, .	4.1	3