

Michael Mrochen

List of Publications by Year in descending order

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44
papers

4,026
citations

236612

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329751

37
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44
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docs citations

44
times ranked

1622
citing authors

#	ARTICLE	IF	CITATIONS
1	Safety of UVA-Riboflavin Cross-Linking of the Cornea. <i>Cornea</i> , 2007, 26, 385-389.	0.9	712
2	Complication and failure rates after corneal crosslinking. <i>Journal of Cataract and Refractive Surgery</i> , 2009, 35, 1358-1362.	0.7	472
3	Collagen crosslinking with ultraviolet-A and hypoosmolar riboflavin solution in thin corneas. <i>Journal of Cataract and Refractive Surgery</i> , 2009, 35, 621-624.	0.7	286
4	Increased higher-order optical aberrations after laser refractive surgery. <i>Journal of Cataract and Refractive Surgery</i> , 2001, 27, 362-369.	0.7	249
5	The Efficacy of Corneal Cross-Linking Shows a Sudden Decrease with Very High Intensity UV Light and Short Treatment Time. , 2013, 54, 1176.		218
6	Clinical results of wavefront-guided laser in situ keratomileusis 3 months after surgery. <i>Journal of Cataract and Refractive Surgery</i> , 2001, 27, 201-207.	0.7	215
7	Equivalence of Biomechanical Changes Induced by Rapid and Standard Corneal Cross-linking, Using Riboflavin and Ultraviolet Radiation. , 2011, 52, 9048.		197
8	Wavefront-guided Laser in situ Keratomileusis: Early Results in Three Eyes. <i>Journal of Refractive Surgery</i> , 2000, 16, 116-121.	1.1	190
9	Wavefront-optimized ablation profiles. <i>Journal of Cataract and Refractive Surgery</i> , 2004, 30, 775-785.	0.7	180
10	Q-factor customized ablation profile for the correction of myopic astigmatism. <i>Journal of Cataract and Refractive Surgery</i> , 2006, 32, 584-589.	0.7	114
11	Maximum permissible lateral decentration in aberration-sensing and wavefront-guided corneal ablation. <i>Journal of Cataract and Refractive Surgery</i> , 2003, 29, 257-263.	0.7	110
12	Influence of Corneal Curvature on Calculation of Ablation Patterns Used in Photorefractive Laser Surgery. <i>Journal of Refractive Surgery</i> , 2001, 17, .	1.1	110
13	Wavefront-guided versus wavefront-optimized laser in situ keratomileusis: Contralateral comparative study. <i>Journal of Cataract and Refractive Surgery</i> , 2008, 34, 389-397.	0.7	92
14	Correlation Between Corneal and Total Wavefront Aberrations in Myopic Eyes. <i>Journal of Refractive Surgery</i> , 2003, 19, 104-112.	1.1	74
15	Optimization Model for UV-Riboflavin Corneal Cross-linking. , 2012, 53, 762.		73
16	Aberration-sensing and Wavefront-guided Laser in situ Keratomileusis: Management of Decentered Ablation. <i>Journal of Refractive Surgery</i> , 2002, 18, 418-429.	1.1	71
17	Improvement in photorefractive corneal laser surgery results using an active eye-tracking system. <i>Journal of Cataract and Refractive Surgery</i> , 2001, 27, 1000-1006.	0.7	68
18	Operative Correction of Ocular Aberrations to Improve Visual Acuity. <i>Journal of Refractive Surgery</i> , 2000, 16, .	1.1	66

#	ARTICLE	IF	CITATIONS
19	Simulation of Eye-tracker Latency, Spot Size, and Ablation Pulse Depth on the Correction of Higher Order Wavefront Aberrations With Scanning Spot Laser Systems. <i>Journal of Refractive Surgery</i> , 2005, 21, 28-36.	1.1	59
20	Maximum permissible torsional misalignment in aberration-sensing and wavefront-guided corneal ablation. <i>Journal of Cataract and Refractive Surgery</i> , 2004, 30, 17-25.	0.7	55
21	Wavefront aberrations in eyes with decentered ablations. <i>Journal of Cataract and Refractive Surgery</i> , 2009, 35, 695-702.	0.7	37
22	Laboratory Measurement of the Absorption Coefficient of Riboflavin for Ultraviolet Light (365 nm). <i>Journal of Refractive Surgery</i> , 2011, 27, 195-201.	1.1	36
23	Second-Harmonic Reflection Imaging of Normal and Accelerated Corneal Crosslinking Using Porcine Corneas and the Role of Intraocular Pressure. <i>Cornea</i> , 2014, 33, 125-130.	0.9	30
24	Limitations of Pupil Tracking in Refractive Surgery: Systematic Error in Determination of Corneal Locations. <i>Journal of Refractive Surgery</i> , 2004, 20, 371-378.	1.1	29
25	Corneal Higher Order Aberrations After Myopic Wavefront-optimized Ablation. <i>Journal of Refractive Surgery</i> , 2013, 29, 42-49.	1.1	28
26	Aberration-sensing and wavefront-guided laser in situ keratomileusis: management of decentered ablation. <i>Journal of Refractive Surgery</i> , 2002, 18, 418-29.	1.1	28
27	Effect of time sequences in scanning algorithms on the surface temperature during corneal laser surgery with high-repetition-rate excimer laser. <i>Journal of Cataract and Refractive Surgery</i> , 2009, 35, 738-746.	0.7	27
28	Corneal and total wavefront aberrations in phakic and pseudophakic eyes after implantation of monofocal foldable intraocular lenses. <i>Journal of Cataract and Refractive Surgery</i> , 2006, 32, 762-771.	0.7	25
29	Clinical Experience With the Tscherning Aberrometer. <i>Journal of Refractive Surgery</i> , 2000, 16, .	1.1	21
30	Optical Ray Tracing for the Calculation of Optimized Corneal Ablation Profiles in Refractive Treatment Planning. <i>Journal of Refractive Surgery</i> , 2008, 24, S446-51.	1.1	21
31	Treatment-induced shifts of ocular reference axes used for measurement centration. <i>Journal of Cataract and Refractive Surgery</i> , 2005, 31, 1986-1994.	0.7	20
32	Correlation between corneal and total wavefront aberrations in myopic eyes. <i>Journal of Refractive Surgery</i> , 2003, 19, 104-12.	1.1	20
33	Optical ray tracing-guided laser in situ keratomileusis for moderate to high myopic astigmatism. <i>Journal of Cataract and Refractive Surgery</i> , 2012, 38, 28-34.	0.7	18
34	Absorption of UV-light by Riboflavin Solutions With Different Concentration. <i>Journal of Refractive Surgery</i> , 2012, 28, 91-92.	1.1	16
35	Newer protocols and future in collagen cross-linking. <i>Indian Journal of Ophthalmology</i> , 2013, 61, 425.	0.5	13
36	Model for Optimization of the UV-Riboflavin Strengthening (cross-linking) of the Cornea: Percolation Threshold. <i>Photochemistry and Photobiology</i> , 2015, 91, 1403-1411.	1.3	13

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37	The theory and art of corneal cross-linking. Indian Journal of Ophthalmology, 2013, 61, 416.	0.5	9
38	<title>Automated ocular wavefront analyzer for clinical use</title>. , 2000, 3908, 86.		7
39	Effect of air-flow on the evaluation of refractive surgery ablation patterns. Optics Express, 2011, 19, 4653.	1.7	7
40	Rate of riboflavin diffusion from intrastromal channels before corneal crosslinking. Journal of Cataract and Refractive Surgery, 2016, 42, 462-468.	0.7	7
41	Relevance of Wavefront Aberrations of the Human Eye in Corneal Laser Surgery. Medical Laser Application: International Journal for Laser Treatment and Research, 2004, 19, 126-135.	0.4	2
42	Fundamentals of Corneal Cross Linking. , 2017, , 63-86.		1
43	Optical Physics of Customized Laser Ablation Profiles. , 2018, , 95-114.		0
44	Revealing company secrets--please tell the truth and nothing but the truth!. Journal of Refractive Surgery, 2002, 18, S644-51.	1.1	0