Carina Koppen

List of Publications by Year in descending order

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75 papers	2,064 citations	279798 23 h-index	254184 43 g-index
75 all docs	75 docs citations	75 times ranked	2066 citing authors

#	Article	IF	Citations
1	Phase II Randomized, Double-Masked, Vehicle-Controlled Trial of Recombinant Human Nerve Growth Factor for Neurotrophic Keratitis. Ophthalmology, 2018, 125, 1332-1343.	5.2	188
2	Refractive and topographic results of benzalkonium chlorideâ€“assisted transepithelial crosslinking. Journal of Cataract and Refractive Surgery, 2012, 38, 1000-1005.	1.5	116
3	Corneal regeneration: A review of stromal replacements. Acta Biomaterialia, 2018, 69, 31-41.	8.3	115
4	Limbal Stem Cell Deficiency: Current Treatment Options and Emerging Therapies. Stem Cells International, 2016, 2016, 1-22.	2.5	112
5	Evaluation of a Machine-Learning Classifier for Keratoconus Detection Based on Scheimpflug Tomography. Cornea, 2016, 35, 827-832.	1.7	97
6	A review of the evidence for inÂvivo corneal endothelial regeneration. Survey of Ophthalmology, 2018, 63, 149-165.	4.0	97
7	Results of a phase I/II clinical trial: standardized, non-xenogenic, cultivated limbal stem cell transplantation. Journal of Translational Medicine, 2014, 12, 58.	4.4	96
8	Keratitis and Corneal Scarring After UVA/Riboflavin Cross-linking for Keratoconus. Journal of Refractive Surgery, 2009, 25, S819-23.	2.3	88
9	Scleral Lenses Reduce the Need for Corneal Transplants in Severe Keratoconus. American Journal of Ophthalmology, 2018, 185, 43-47.	3.3	77
10	Scleral Contact Lenses as an Alternative to Tarsorrhaphy for the Long-Term Management of Combined Exposure and Neurotrophic Keratopathy. Cornea, 2013, 32, 359-361.	1.7	62
11	Computer aided diagnosis for suspect keratoconus detection. Computers in Biology and Medicine, 2019, 109, 33-42.	7.0	61
12	Phase I Trial of Recombinant Human Nerve Growth Factor for Neurotrophic Keratitis. Ophthalmology, 2018, 125, 1468-1471.	5.2	56
13	Standardized Limbal Epithelial Stem Cell Graft Generation and Transplantation. Tissue Engineering - Part C: Methods, 2010, 16, 921-927.	2.1	54
14	Repeatability of the Pentacam HR in Various Grades of Keratoconus. American Journal of Ophthalmology, 2020, 219, 154-162.	3.3	53
15	Validation of an Objective Keratoconus Detection System Implemented in a Scheimpflug Tomographer and Comparison With Other Methods. Cornea, 2017, 36, 689-695.	1.7	47
16	Corneal Endothelial Cells Over the Past Decade: Are We Missing the Mark(er)?. Translational Vision Science and Technology, 2019, 8, 13.	2.2	44
17	Primary Graft Failure Caused by Herpes Simplex Virus Type 1. Cornea, 2001, 20, 187-190.	1.7	39
18	Human Tears Reveal Insights into Corneal Neovascularization. PLoS ONE, 2012, 7, e36451.	2.5	34

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19	A new perspective on the genetics of keratoconus: why have we not been more successful?. Ophthalmic Genetics, 2018, 39, 158-174.	1.2	33
20	Repeatability and Inter-device Agreement for Three Different Methods of Keratometry: Placido, Scheimpflug, and Color LED Corneal Topography. Journal of Refractive Surgery, 2015, 31, 176-181.	2.3	33
21	Contact lens-related corneal ulcers requiring hospitalization: A 7-year retrospective study in Belgium. Acta Ophthalmologica, 2006, 84, 522-526.	0.3	29
22	Safety of Cultivated Limbal Epithelial Stem Cell Transplantation for Human Corneal Regeneration. Stem Cells International, 2017, 2017, 1-11.	2.5	26
23	Designer Descemet Membranes Containing PDLLA and Functionalized Gelatins as Corneal Endothelial Scaffold. Advanced Healthcare Materials, 2020, 9, e2000760.	7.6	25
24	SyntEyes <scp>KTC</scp>: higher order statistical eye model for developing keratoconus. Ophthalmic and Physiological Optics, 2017, 37, 358-365.	2.0	23
25	Pterygiumâ€"The Good, the Bad, and the Ugly. Cells, 2021, 10, 1567.	4.1	22
26	The Absorption Characteristics of the Human Cornea in Ultraviolet-A Crosslinking. Eye and Contact Lens, 2010, 36, 77-80.	1.6	21
27	Logistic index for keratoconus detection and severity scoring (Logik). Computers in Biology and Medicine, 2020, 122, 103809.	7.0	20
28	Riboflavin/UVA Cross-Linking for Keratoconus in down Syndrome. Journal of Refractive Surgery, 2010, 26, 623-624.	2.3	20
29	Optical Coherence Tomography in Cultivated Limbal Epithelial Stem Cell Transplantation Surgery. Asia-Pacific Journal of Ophthalmology, 2015, 4, 339-345.	2.5	17
30	Short- and Long-Term Results of Xenogeneic-Free Cultivated Autologous and Allogeneic Limbal Epithelial Stem Cell Transplantations. Cornea, 2019, 38, 1543-1549.	1.7	17
31	Evaluation of UVA Cytotoxicity for Human Endothelium in an Ex Vivo Corneal Cross-linking Experimental Setting. Journal of Refractive Surgery, 2016, 32, 41-46.	2.3	17
32	Influence of neodymium:YAG laser capsulotomy on ocular wavefront aberrations in pseudophakic eyes with hydrophilic and hydrophobic intraocular lenses. Journal of Cataract and Refractive Surgery, 2009, 35, 1906-1910.	1.5	16
33	Changes in Forward and Backward Light Scatter in Keratoconus Resulting From Corneal Cross-Linking. Asia-Pacific Journal of Ophthalmology, 2013, 2, 15-19.	2.5	15
34	Optimization and validation of an existing, surgical and robust dry eye rat model for the evaluation of therapeutic compounds. Experimental Eye Research, 2016, 146, 172-178.	2.6	15
35	Scheimpflug Densitometry in Keratoconus: A New Method of Visualizing the Cone. Cornea, 2021, 40, 194-202.	1.7	15
36	Diagnostic Challenges in Nocardia Keratitis. Eye and Contact Lens, 2018, 44, S370-S372.	1.6	14

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37	Mini-Scleral Lenses Improve Vision-Related Quality of Life in Keratoconus. Cornea, 2021, 40, 859-864.	1.7	14
38	Influence of contact lens wear on the results of ultraviolet A/riboflavin cross-linking for progressive keratoconus. British Journal of Ophthalmology, 2011, 95, 1402-1405.	3.9	13
39	Influence of the eye globe design on biomechanical analysis. Computers in Biology and Medicine, 2021, 135, 104612.	7.0	13
40	Template-Based Correction of High-Order Aberration in Keratoconus. Optometry and Vision Science, 2013, 90, 324-334.	1.2	12
41	The Outcome of Scleral Lens Fitting for Keratoconus With Resolved Corneal Hydrops. Cornea, 2019, 38, 855-858.	1.7	12
42	Clinical Outcome of Hybrid Contact Lenses in Keratoconus. Eye and Contact Lens, 2021, 47, 283-287.	1.6	12
43	Corneal endothelial wound healing: understanding the regenerative capacity of the innermost layer of the cornea. Translational Research, 2022, 248, 111-127.	5.0	12
44	Visual acuity after penetrating keratoplasty for pseudophakic and aphakic bullous keratopathy. Journal of Cataract and Refractive Surgery, 2003, 29, 482-486.	1.5	11
45	Pterygium Pathology: A Prospective Case-Control Study on Tear Film Cytokine Levels. Mediators of Inflammation, 2019, 2019, 1-11.	3.0	11
46	Determining the Most Suitable Tomography-Based Parameters to Describe Progression in Keratoconus. The Retrospective Digital Computer Analysis of Keratoconus Evolution Project. Eye and Contact Lens, 2021, 47, 486-493.	1.6	11
47	Tissue engineered scaffolds for corneal endothelial regeneration: a material's perspective. Biomaterials Science, 2022, 10, 2440-2461.	5.4	11
48	Modeling refractive correction strategies in keratoconus. Journal of Vision, 2021, 21, 18.	0.3	9
49	Resequencing of candidate genes for Keratoconus reveals a role for Ehlersâ€“Danlos Syndrome genes. European Journal of Human Genetics, 2021, 29, 1745-1755.	2.8	8
50	How Abnormal Is the Noncorneal Biometry of Keratoconic Eyes?. Cornea, 2016, 35, 860-865.	1.7	7
51	Eckardt Keratoprosthesis for Tectonic Repair of a Large Corneal Perforation. Cornea, 2016, 35, 1147-1149.	1.7	7
52	The corneoscleral shape in keratoconus patients with and without specialty lens wear. Contact Lens and Anterior Eye, 2021, 44, 101343.	1.7	7
53	Diagnostic patterns in keratoconus. Contact Lens and Anterior Eye, 2021, 44, 101333.	1.7	7
54	Forecasting Progressive Trends in Keratoconus by Means of a Time Delay Neural Network. Journal of Clinical Medicine, 2021, 10, 3238.	2.4	7

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55	Selecting Appropriate Reference Genes for Quantitative Real-Time Polymerase Chain Reaction Studies in Isolated and Cultured Ocular Surface Epithelia. Scientific Reports, 2019, 9, 19631.	3.3	6
56	Exploring the Mesenchymal Stem Cell Secretome for Corneal Endothelial Proliferation. Stem Cells International, 2020, 2020, 1-10.	2.5	6
57	Outcomes of Human Leukocyte Antigenâ€“Matched Allogeneic Cultivated Limbal Epithelial Transplantation in Aniridia-Associated Keratopathyâ€”A Single-Center Retrospective Analysis. Cornea, 2021, Publish Ahead of Print, 69-77.	1.7	6
58	Proliferation Increasing Genetic Engineering in Human Corneal Endothelial Cells: A Literature Review. Frontiers in Medicine, 2021, 8, 688223.	2.6	6
59	Baseline Findings in the Retrospective Digital Computer Analysis of Keratoconus Evolution (REDCAKE) Project. Cornea, 2021, 40, 156-167.	1.7	6
60	Assessing the visual image quality provided by refractive corrections during keratoconus progression. Ophthalmic and Physiological Optics, 2022, 42, 358-366.	2.0	6
61	Influence of Author's Gender on the Peer-Review Process in Vision Science. American Journal of Ophthalmology, 2022, 240, 115-124.	3.3	5
62	A Case of Late Spontaneous Postâ€“Radial Keratotomy Corneal Perforation Managed With Specialty Lenses. Eye and Contact Lens, 2018, 44, S341-S344.	1.6	4
63	Bigaussian Wavefront Model for Normal and Keratoconic Eyes. Optometry and Vision Science, 2017, 94, 680-687.	1.2	4
64	Intacs to stabilize diurnal variation in refraction after radial keratotomy. Journal of Cataract and Refractive Surgery, 2007, 33, 2138-2141.	1.5	3
65	Lymphangiogenesis May Play a Role in Cultivated Limbal Stem Cell Transplant Rejection. Ocular Immunology and Inflammation, 2012, 20, 381-383.	1.8	3
66	Characterisation of Gel-Forming Mucins Produced In Vivo and In Ex Vivo Conjunctival Explant Cultures. International Journal of Molecular Sciences, 2021, 22, 10528.	4.1	3
67	Corneal epithelial restoration after penetrating keratoplasty in repeated failed cultivated limbal stem cell grafts. Journal of EuCornea, 2019, 2, 6-9.	0.5	2
68	Development and Validation of an Open-Source Grading Tool for Outcome Assessment in Limbal Stem Cell Treatment. Cornea, 2020, 39, 787-792.	1.7	2
69	Densitometry marks delineating the affected area in keratoconus: clinical suitability of a new descriptive system based on its repeatability and reproducibility. Ophthalmic and Physiological Optics, 2021, 41, 748-756.	2.0	2
70	Identifying Eyes That Can Benefit From Cross-linking Is Mostly a Question of Clinical Judgment. Eye and Contact Lens, 2021, 47, 485-485.	1.6	1
71	UVA/Riboflavin Cross-Linking as an Alternative Treatment for Therapeutic Keratoplasty in Corneal Melting. International Journal of Keratoconus and Ectatic Corneal Diseases, 2012, 1, 61-65.	0.5	1
72	Stem Cell Applications in Corneal Regeneration and Wound Repair. Stem Cells in Clinical Applications, 2017, , 213-255.	0.4	0

#	Article	IF	Citations
73	Correction to: Valgaeren, Koppen and Van Camp, A New Perspective on the Genetics of Keratoconus: Why Have We Not Been More Successful?. Ophthalmic Genetics, 2018, 39, x-x.	1.2	0
74	Reply. American Journal of Ophthalmology, 2018, 190, 203.	3.3	0
75	The Development of an Innovative Corneal Biopsy Tool: A Usability Comparison of Four Ergonomic Handle Prototypes. Advances in Intelligent Systems and Computing, 2019, , 23-29.	0.6	0