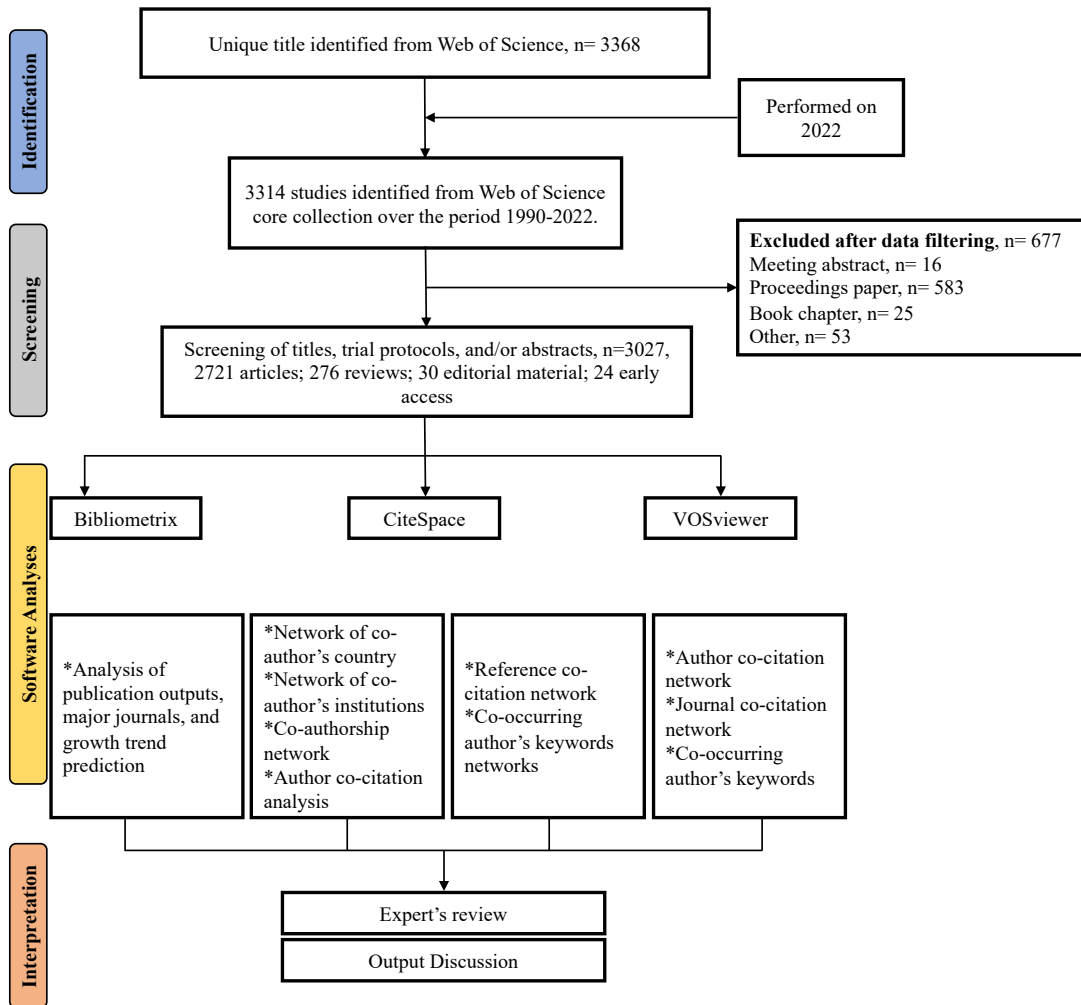


Supplementary Material

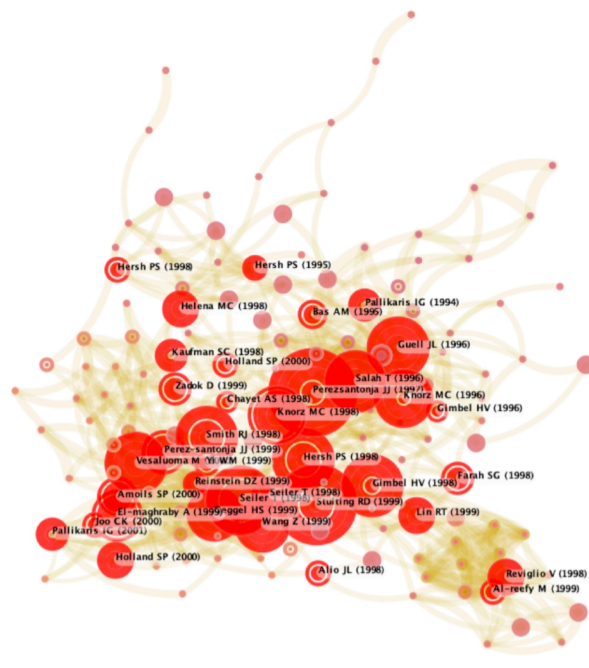
Supplementary Fig. 1. Flow chart of the scientometric study.

TS (“topic,” including title, abstract, author’s keywords and keywords Plus)



Supplementary Fig. 2. Detail focus on most important clusters of the co-citation reference networks ranked by burstness of citations (1990-2022)

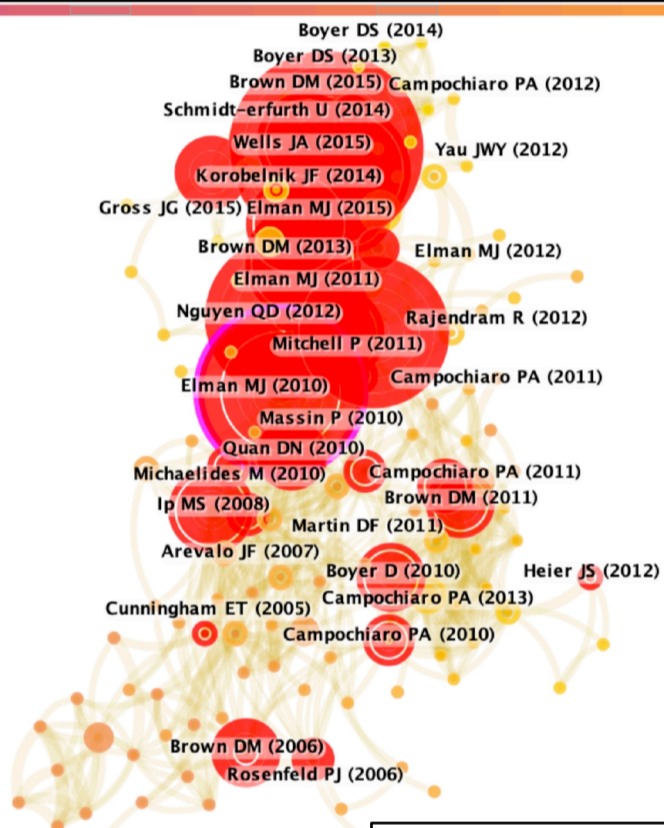
For each cluster, we report all five top keywords obtained, the selected label being the keywords that are the most cited (generated by the likelihood ratio of keywords). These keywords are highly susceptible to represent the overall topic of a cluster. Burstness is represented in each cluster with red tree-rings around nodes.



Cluster 0- 'rk': rk (8.02, 0.005); epikeratophakia (8.02, 0.005); nerves (8.02, 0.005); iscrs (8.02, 0.005); inflammation (5.28, 0.05)

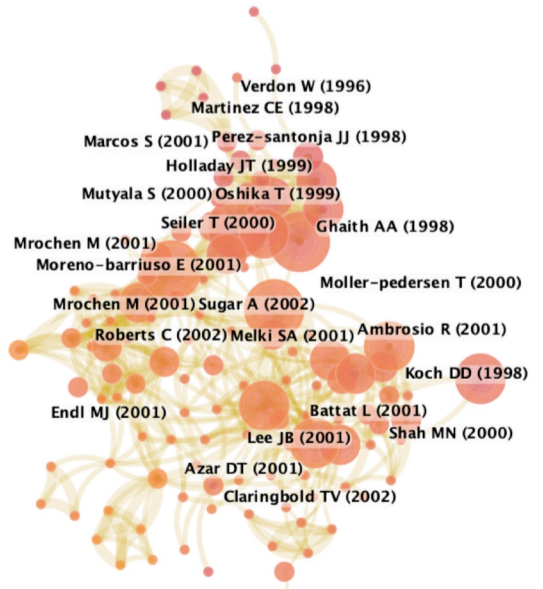
6-bit) Advanced
 3:42 PM CST
 stop / laser / data
 (Slice Length=1)
 ex (k=25), LRF=3.0, L/N=10, LBY=5, e=1.0
 596 (Density=0.0045)

Wt S=0.9561
 0.918



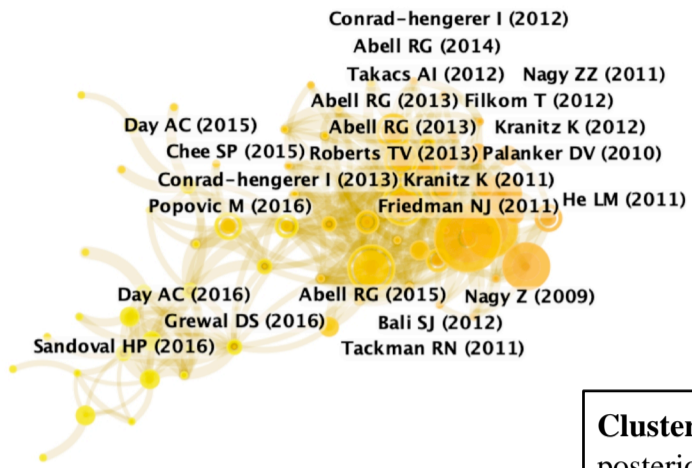
Cluster 1- 'diabetic macular edema': diabetic macular edema (13.76, 0.001); ranibizumab (8.75, 0.005); retinal laser photocoagulation (8.64, 0.005); intravitreal therapy (8.64, 0.005); vitrectomy (8.64, 0.005)

CiteSpace, v. 6.1.R3 (64-bit) Advanced
 October 22, 2022 at 5:36:03 PM CST
 Web: /users/ellen/Desktop/laser/data
 Timespan: 1990-2022 (Slice Length=1)
 Selection Criteria: g-index (k=25), LRF=3.0, L/N=10, LBY=5, e=1.0
 Network N=1585, E=5696 (Density=0.0045)
 Largest CC: 1004 (63%)
 Nodes Labeled: 1.0%
 Pruning: None
 Modularity Q=0.8828
 Weighted Mean Silhouette S=0.9561
 Harmonic Mean(Q, S)=0.918



Cluster 2- 'aberrometry': aberrometry (15.39, 1.0E-4); refractive surgery (8.78, 0.005); contrast perception (7.6, 0.01); optical quality (7.6, 0.01); wavefront (7.6, 0.01)



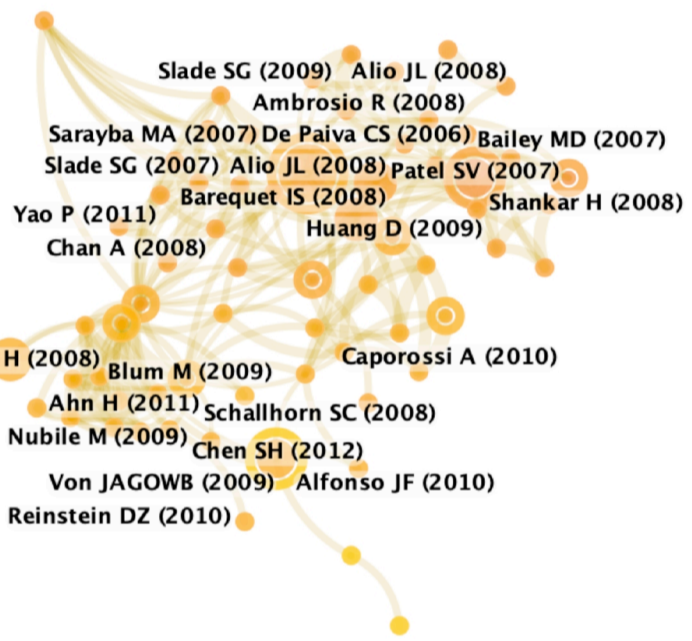


Cluster 3- 'femtosecond laser': femtosecond laser (6.87, 0.01); posterior capsule rupture (6.07, 0.05); femtosecond laser-assisted cataract surgery (6.07, 0.05); zonular dehiscence (6.07, 0.05); laser-induced breakdown (6.07, 0.05)

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ex (k=25), LRF=3.0, L/N=10, LBY=5, e=1.0
996 (Density=0.0045)

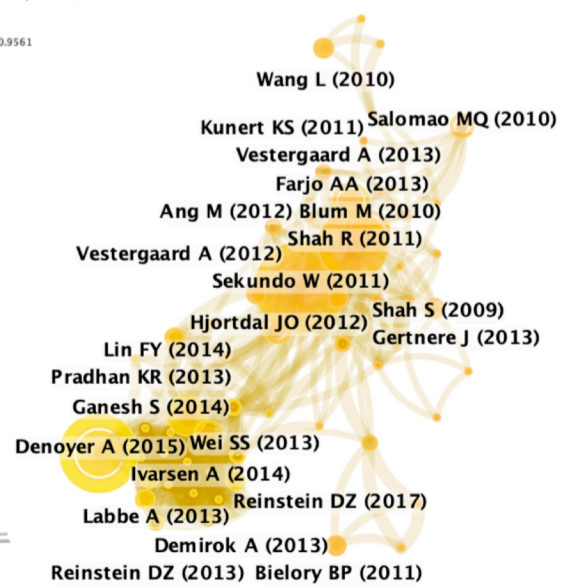
tte S=0.9561
918

Lubatschowski H (2008) Blum M (2009) Caporossi A (2010)
Ahn H (2011) Schallhorn SC (2008)
Nubile M (2009) Chen SH (2012)
Von JAGOWB (2009) Alfonso JF (2010)
Reinstein DZ (2010)

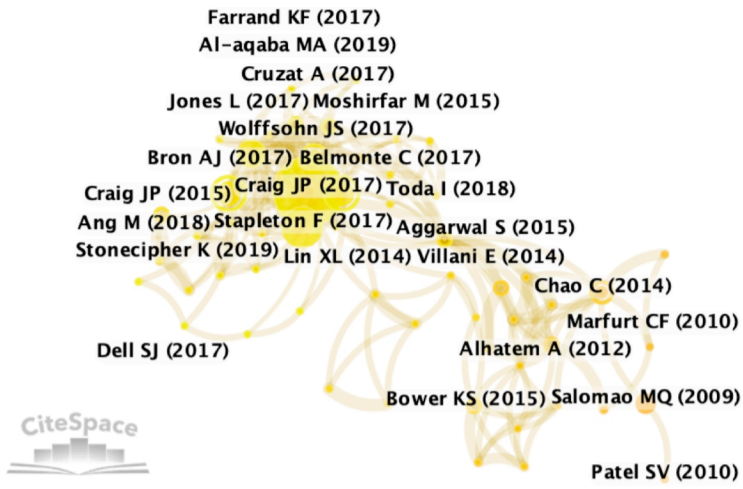


Cluster 4- 'biomedical optics': biomedical optics (5.05, 0.05); mmp-9 (5.05, 0.05); bioptics (5.05, 0.05); intracorneal ring (5.05, 0.05); diffuse lamellar keratitis (5.05, 0.05)

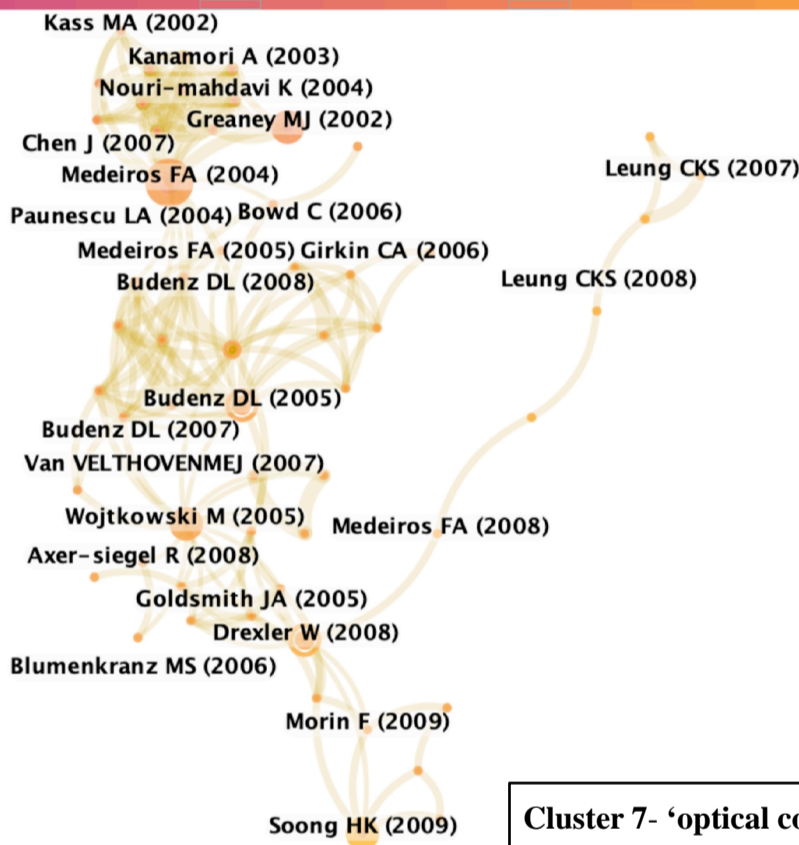
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October 22, 2022 at 5:36:03 PM CST
WOS; I:\Users\ellen\Desktop\laser\data
Timespan: 1990-2022 (Slice Length=1)
Selection Criteria: q=modq (k=25), LRF=3.0, L/N=10, LBY=5, e=1.0
Network N=1585, E=5696 (Density=0.0045)
Largest CC: 1004 (63%)
Nodes Labeled: 1.0%
Pruning: None
Modularity Q=0.8828
Weighted Mean Silhouette S=0.9561
Harmonic Mean(Q, S)=0.918



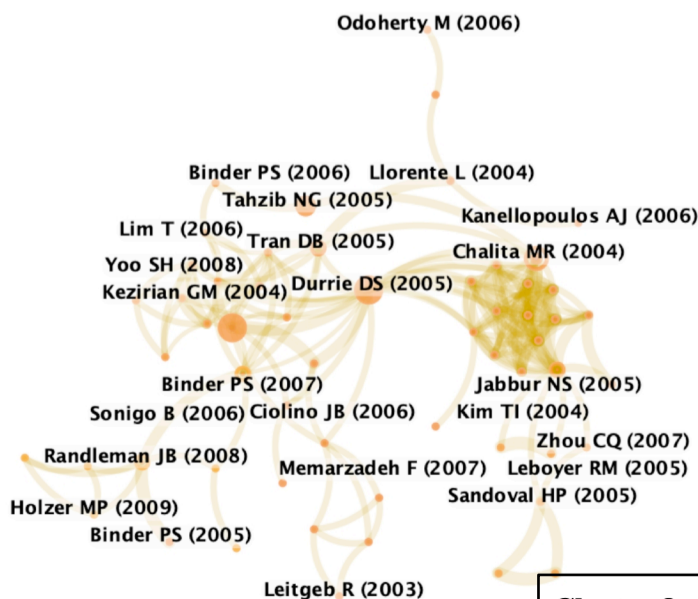
Cluster 5- 'smile': smile (18.21, 1.0E-4); myopia (12.05, 0.001); corneenne (5.98, 0.05); fs-lasik (5.98, 0.05); corneal biomechanics (5.98, 0.05)



Cluster 6- 'dry eye disease': dry eye disease (18.69, 1.0E-4); meibomian gland dysfunction (10.61, 0.005); dry eye (8.49, 0.005); corneal nerves (7.94, 0.005); diabetic retinopathy (7.6, 0.01)

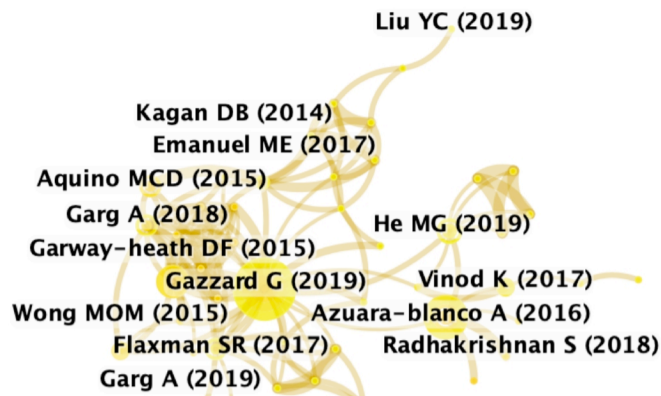


Cluster 7- 'optical coherence tomography': optical coherence tomography (7.3, 0.01); coherence (5.46, 0.05); adaptive optics (5.46, 0.05); ultrahigh resolution imaging (5.46, 0.05); fourier-domain optical coherence tomography (5.46, 0.05)



Cluster 8- 'anterior chamber': anterior chamber (8.89, 0.005); morphometry (8.89, 0.005); contact lens (6.14, 0.05); optical coherence tomography (5.12, 0.05); imaging (4.46, 0.05)

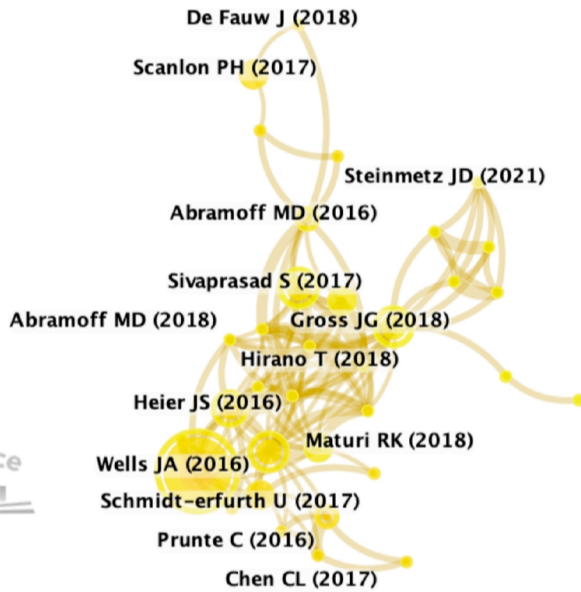
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 Timespan: 1990-2022 (Slice Length=1)
 Selection Criteria: g-index (k=25), LRF=3.0, L/N=10, LBY=5, e=1.0
 Network: N=1585, E=5696 (Density=0.0045)
 Largest CC: 1004 (63%)
 Nodes Labeled: 1.0%
 Pruning: None
 Modularity Q=0.8828
 Weighted Mean Silhouette S=0.9561
 Harmonic Mean(Q, S)=0.918



Cluster 9- 'glaucoma': glaucoma (16.52, 1.0E-4); trabeculectomy (8.21, 0.005); lasers (8.21, 0.005); micropulse laser (8.21, 0.005); ocular hypertension (8.21, 0.005)

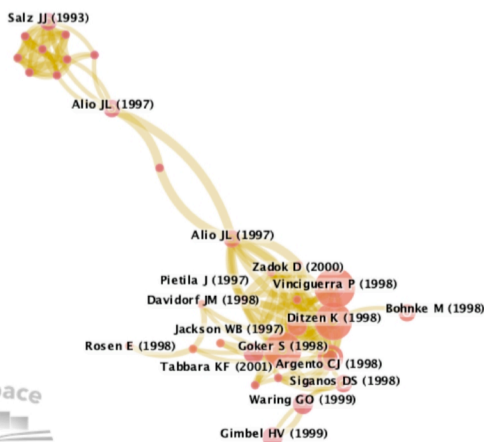
64-bit Advanced
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 (Slice Length=1)
 Selection Criteria: g-index (k=25), LRF=3.0, L/N=10, LBY=5, e=1.0
 Network: N=1585, E=5696 (Density=0.0045)

Weighted Mean Silhouette S=0.9561
 Harmonic Mean(Q, S)=0.918

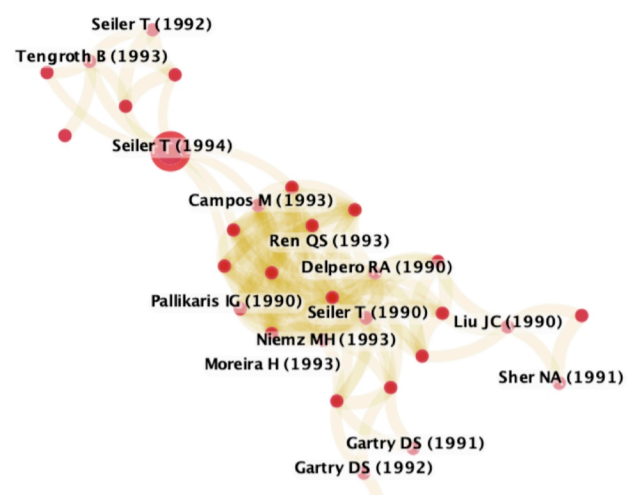


Cluster 10- 'diabetic retinopathy': diabetic retinopathy (12.34, 0.001); screening (9.11, 0.005); diabetic eye disease (9.11, 0.005); deep learning (9.11, 0.005); diabetic macular edema (6.14, 0.05)

Weighted Mean Silhouette S=0.9561
 Harmonic Mean(Q, S)=0.918



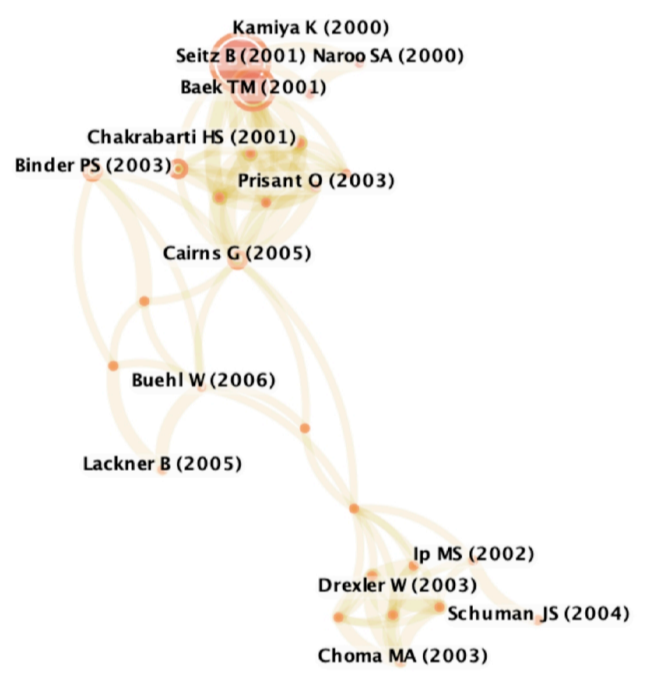
Cluster 11- 'light emitting diode': light emitting diode (NaN, 1.0); coherence (NaN, 1.0); regeneration (NaN, 1.0); sub-basal nerves (NaN, 1.0); microneuroma (NaN, 1.0)



Cluster 12- 'photorefractive keratectomy': photorefractive keratectomy (19.07, 1.0E-4); eye (6.26, 0.05); corneal surgery (6.26, 0.05); photoablation (6.26, 0.05); photodisruption (6.26, 0.05)

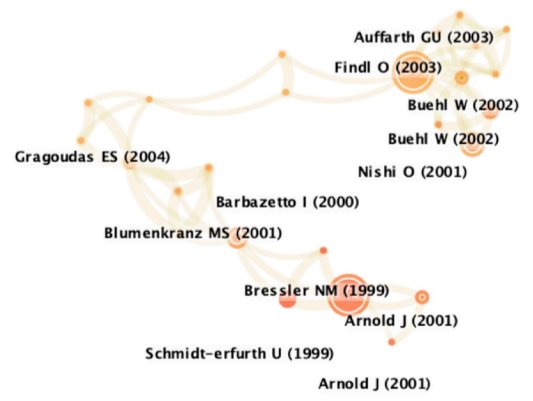
6-bit) Advanced
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ktop/laser/data
(Slice Length=1)
ex (k=2.5), LRF=3.0, L/N=10, LBY=5, e=1.0
596 (Density=0.0045)

ite S=0.9561
918



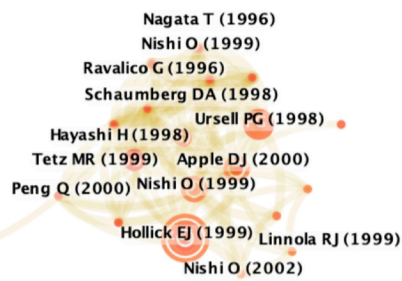
Cluster 13- '3d': 3d (10.48, 0.005); uhr-oct (10.48, 0.005); retina (7.72, 0.01); diabetic retinopathy (0.16, 1.0); diabetic macular edema (0.13, 1.0)

CiteSpace, v. 6.1.R3 (64-bit) Advanced
October 22, 2022 at 5:36:03 PM CST
WoS: /Users/ellen/Desktop/laser/data
Timespan: 1990-2022 (Slice Length=1)
Selection Criteria: g-index (k=2.5), LRF=3.0, L/N=10, LBY=5, e=1.0
Network: N=1585, E=5696 (Density=0.0045)
Largest CC: 1004 (63%)
Nodes Labeled: 1.0%



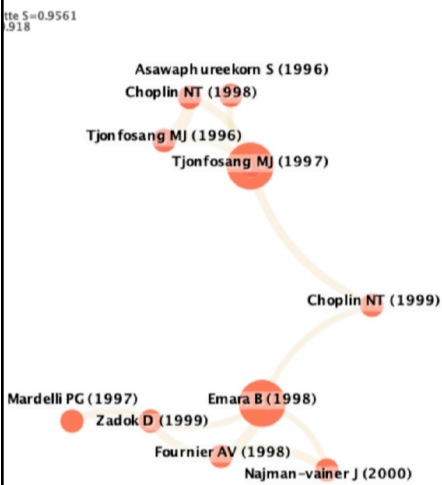
Cluster 15- 'age-related macular degeneration (amd)': age-related macular degeneration (amd) (7.41, 0.01); complement factor h (cfh) (7.41, 0.01); complement factor b (bf) (7.41, 0.01); basal laminar deposit (blamd) (7.41, 0.01); bruch's membrane (7.41, 0.01)

CiteSpace, v. 6.1.R3 (64-bit) Advanced
 October 22, 2022 at 5:36:03 PM CST
 WoS: /Users/ellen/Desktop/laser/data
 Timespan: 1999-2022 (Slice Length=1)
 Selection Criteria: g-index (k=25), LRF=3.0, L/N=10, LBY=5, e=1.0
 Network: N=1585, E=5696 (Density=0.0045)
 Largest CC: 1004 (63%)
 Nodes Labeled: 1.0%
 Pruning: None
 Modularity Q=0.8828
 Weighted Mean Silhouette S=0.9561
 Harmonic Mean(Q, S)=0.918



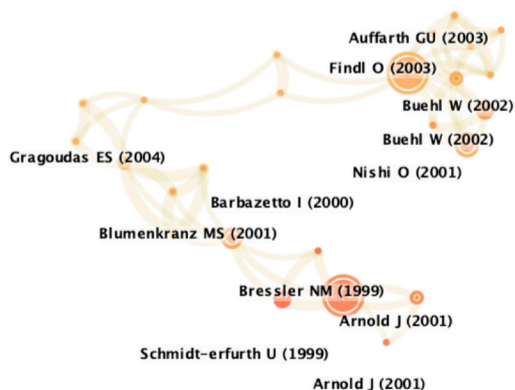
Cluster 20- 'coherence': light emitting diode (NaN, 1.0); coherence (NaN, 1.0); regeneration (NaN, 1.0); sub-basal nerves (NaN, 1.0); microneuroma (NaN, 1.0)

CiteSpace, v. 6.1.R3 (64-bit) Advanced
 October 22, 2022 at 5:36:03 PM CST
 WoS: /Users/ellen/Desktop/laser/data
 Timespan: 1999-2022 (Slice Length=1)
 Selection Criteria: g-index (k=25), LRF=3.0, L/N=10, LBY=5, e=1.0
 Network: N=1585, E=5696 (Density=0.0045)
 Largest CC: 1004 (63%)
 Nodes Labeled: 1.0%
 Pruning: None
 Modularity Q=0.8828
 Weighted Mean Silhouette S=0.9561
 Harmonic Mean(Q, S)=0.918



Cluster 28- 'regeneration': light emitting diode (NaN, 1.0); coherence (NaN, 1.0); regeneration (NaN, 1.0); sub-basal nerves (NaN, 1.0); microneuroma (NaN, 1.0)

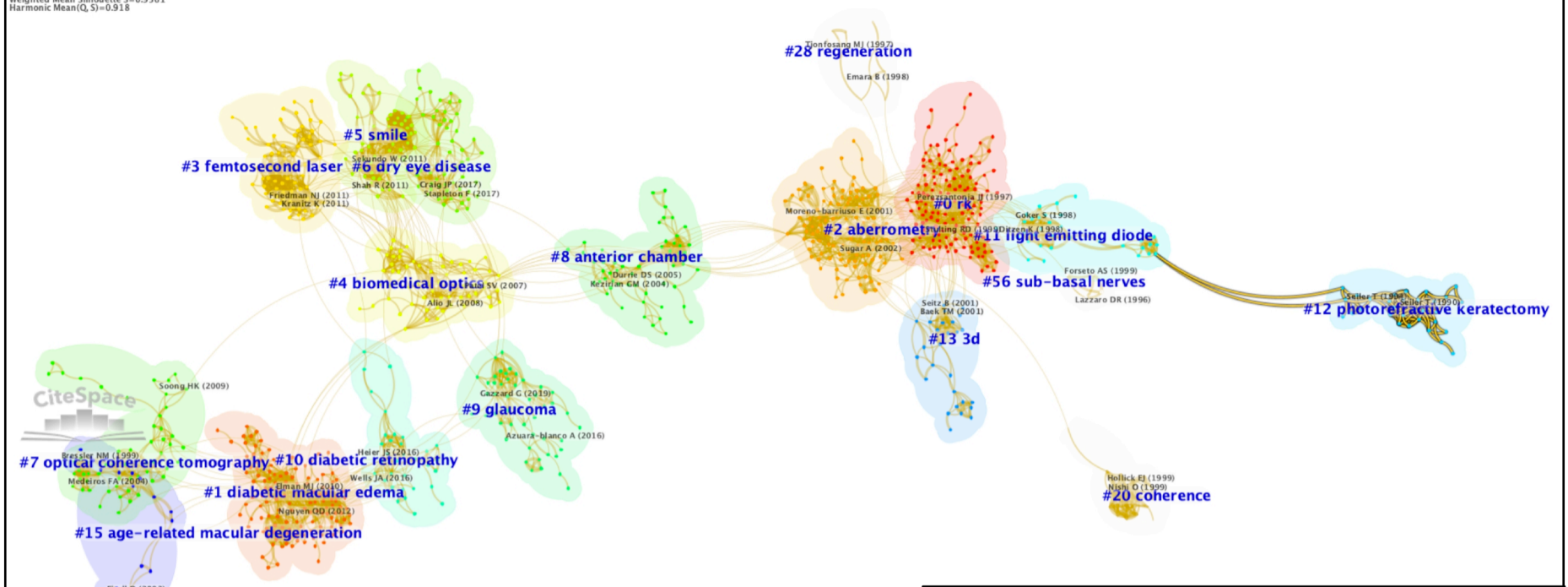
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 October 22, 2022 at 5:36:03 PM CST
 WoS: /Users/ellen/Desktop/laser/data
 Timespan: 1999-2022 (Slice Length=1)
 Selection Criteria: g-index (k=25), LRF=3.0, L/N=10, LBY=5, e=1.0
 Network: N=1585, E=5696 (Density=0.0045)
 Largest CC: 1004 (63%)
 Nodes Labeled: 1.0%
 Pruning: None
 Modularity Q=0.8828
 Weighted Mean Silhouette S=0.9561
 Harmonic Mean(Q, S)=0.918



Cluster 56- 'sub-basal nerves': light emitting diode (NaN, 1.0); coherence (NaN, 1.0); regeneration (NaN, 1.0); sub-basal nerves (NaN, 1.0); microneuroma (NaN, 1.0)

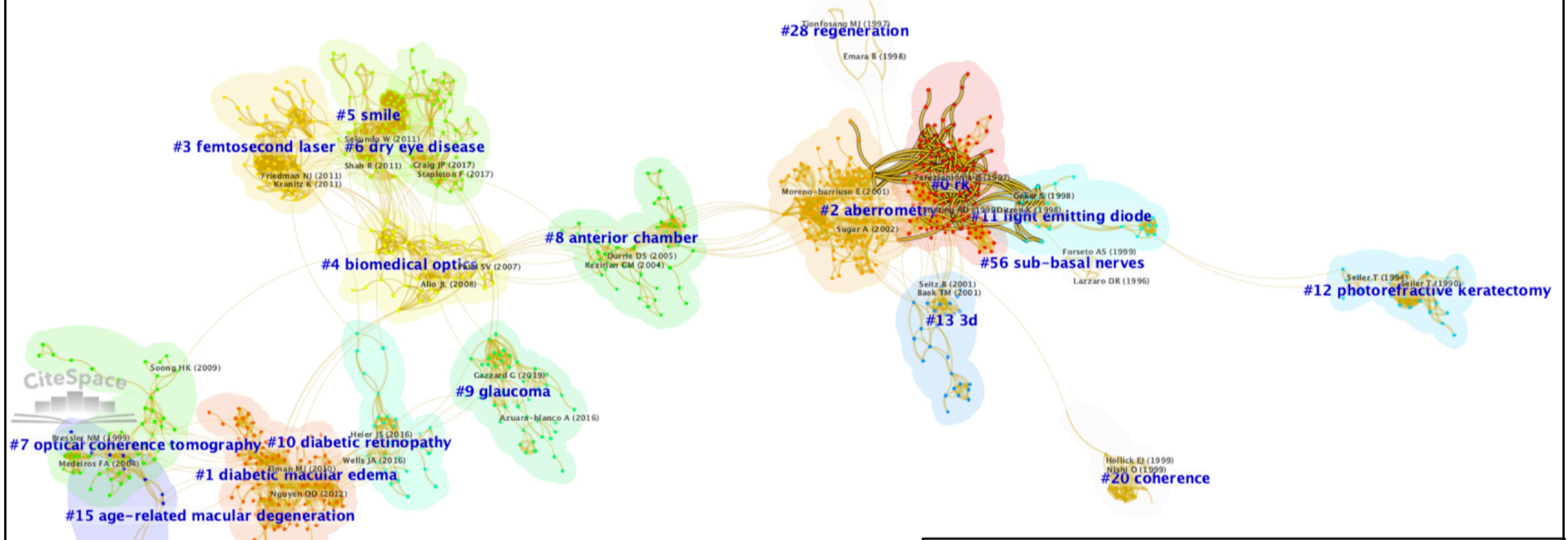
Supplementary Fig. 3. Link walkthrough between clusters based on burstness dynamic for co-cited reference network (1990-2022).

CiteSpace, v. 5.1.R3 (64-bit) Advanced
 October 22, 2022 at 2:03:42 PM CST
 WoS: /Users/ellen/Desktop/laser/data
 Timespan: 1990-2022 (Slice Length=1)
 Selection Criteria: g-index (k=25), LRF=3.0, L/N=10, LBY=5, e=1.0
 Network: N=1585, E=5696 (Density=0.0045)
 Largest CC: 1004 (63%)
 Nodes Labeled: 1.0%
 Pruning: None
 Modularity Q=0.8828
 Weighted Mean Silhouette S=0.9561
 Harmonic Mean(Q, S)=0.918



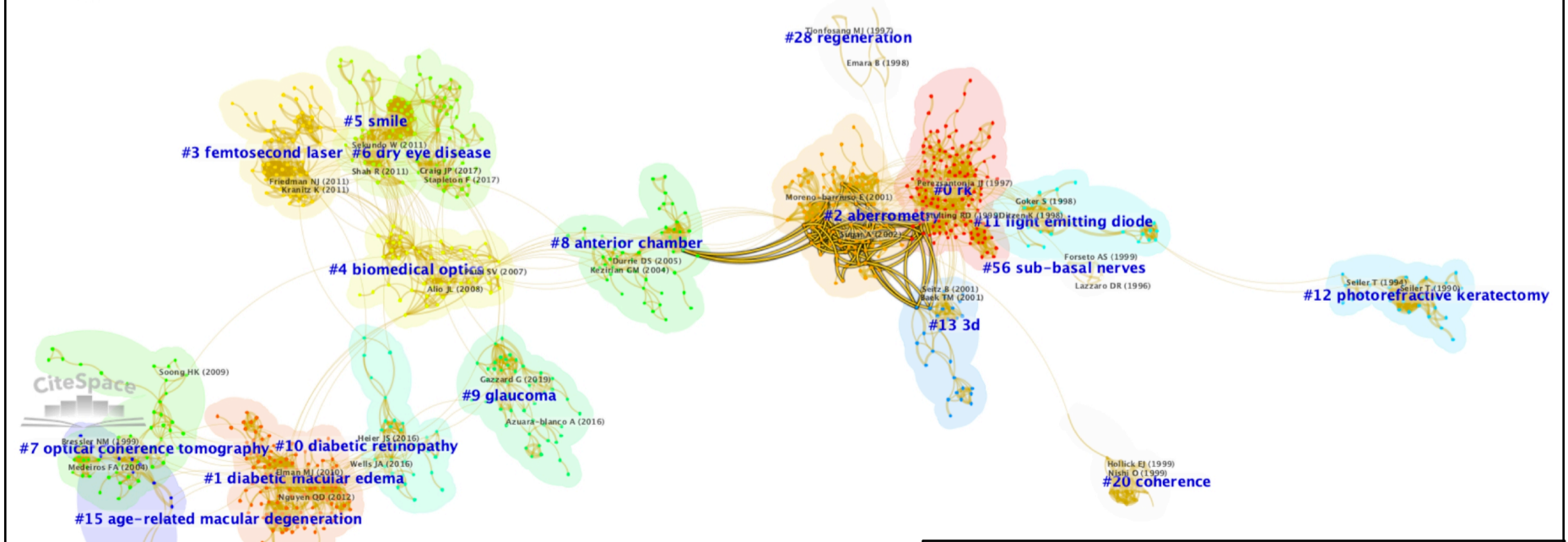
1995- Centrality of cluster 12

CiteSpace, v. 5.1.R3 (64-bit) Advanced
 October 22, 2022 at 2:03:42 PM CST
 WoS: /Users/ellen/Desktop/laser/data
 Timespan: 1990-2022 (Slice Length=1)
 Selection Criteria: g-index (k=25), LRF=3.0, L/N=10, LBY=5, e=1.0
 Network: N=1585, E=5696 (Density=0.0045)
 Largest CC: 1004 (63%)
 Nodes Labeled: 1.0%
 Pruning: None
 Modularity Q=0.8828
 Weighted Mean Silhouette S=0.9561
 Harmonic Mean(Q, S)=0.918



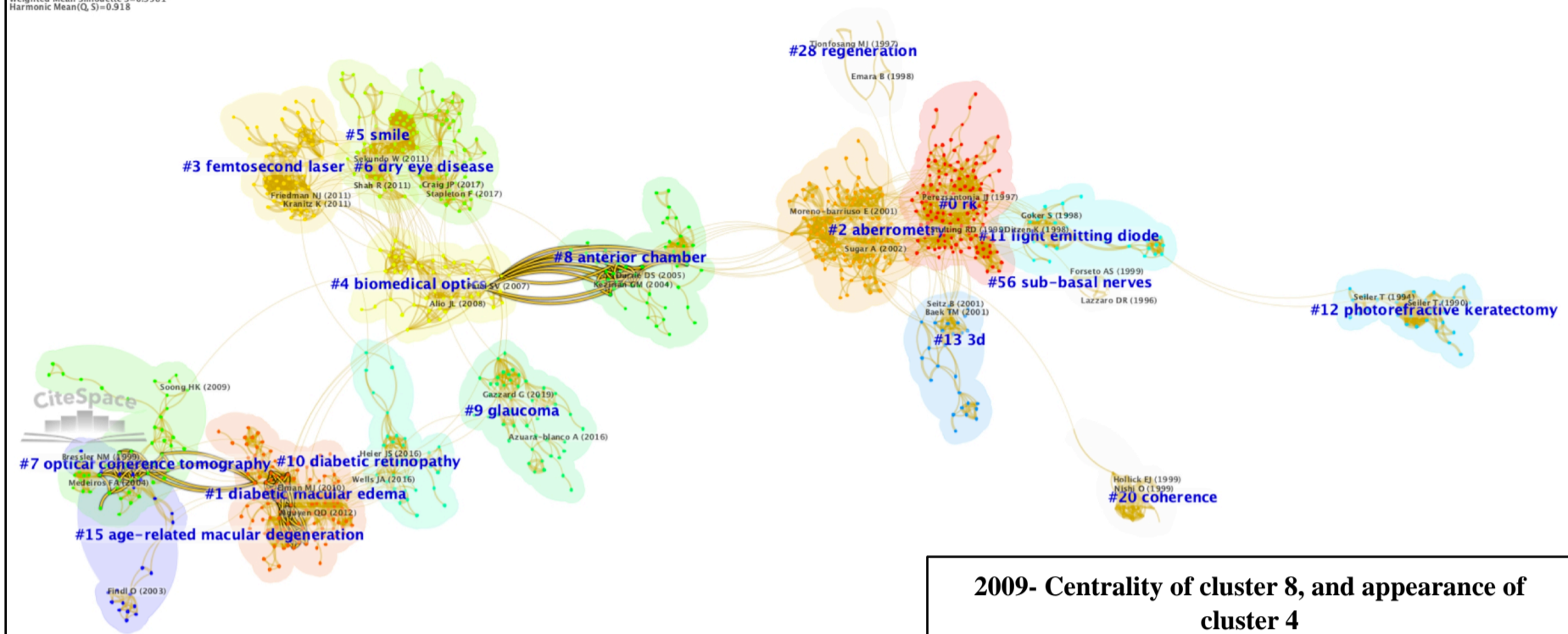
2000- Centrality of cluster 0, and appearance of 2 and 11 from cluster 0

CiteSpace, v. 5.1.R3 (64-bit) Advanced
 October 22, 2022 at 2:03:42 PM CST
 WoS: /Users/ellen/Desktop/laser/data
 Timespan: 1990-2022 (Slice Length=1)
 Selection Criteria: g-index (k=25), LRF=3.0, L/N=10, LBY=5, e=1.0
 Network: N=1585, E=5696 (Density=0.0045)
 Largest CC: 1004 (63%)
 Nodes Labeled: 1.0%
 Pruning: None
 Modularity Q=0.8828
 Weighted Mean Silhouette S=0.9561
 Harmonic Mean(Q, S)=0.918

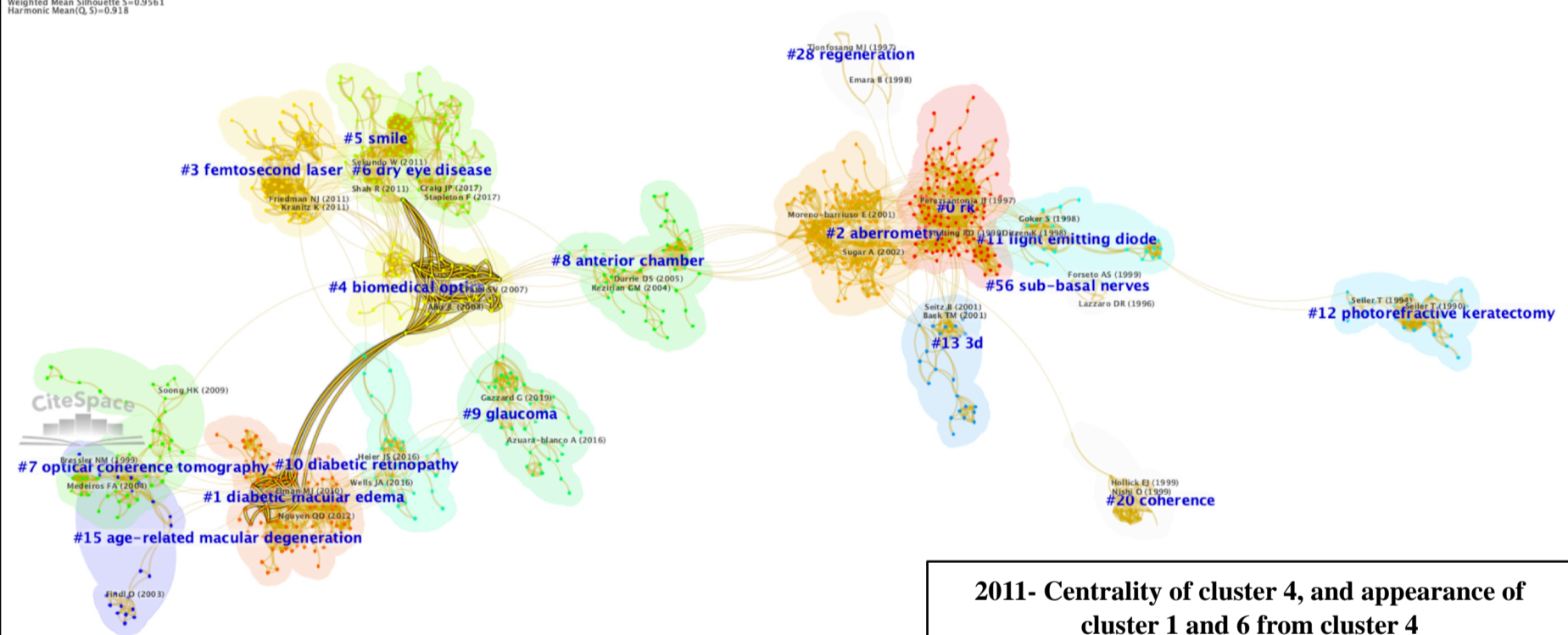


2005- Centrality of 2, and appearance of cluster 13 from cluster 2, and cluster 13 from cluster 2 and 0

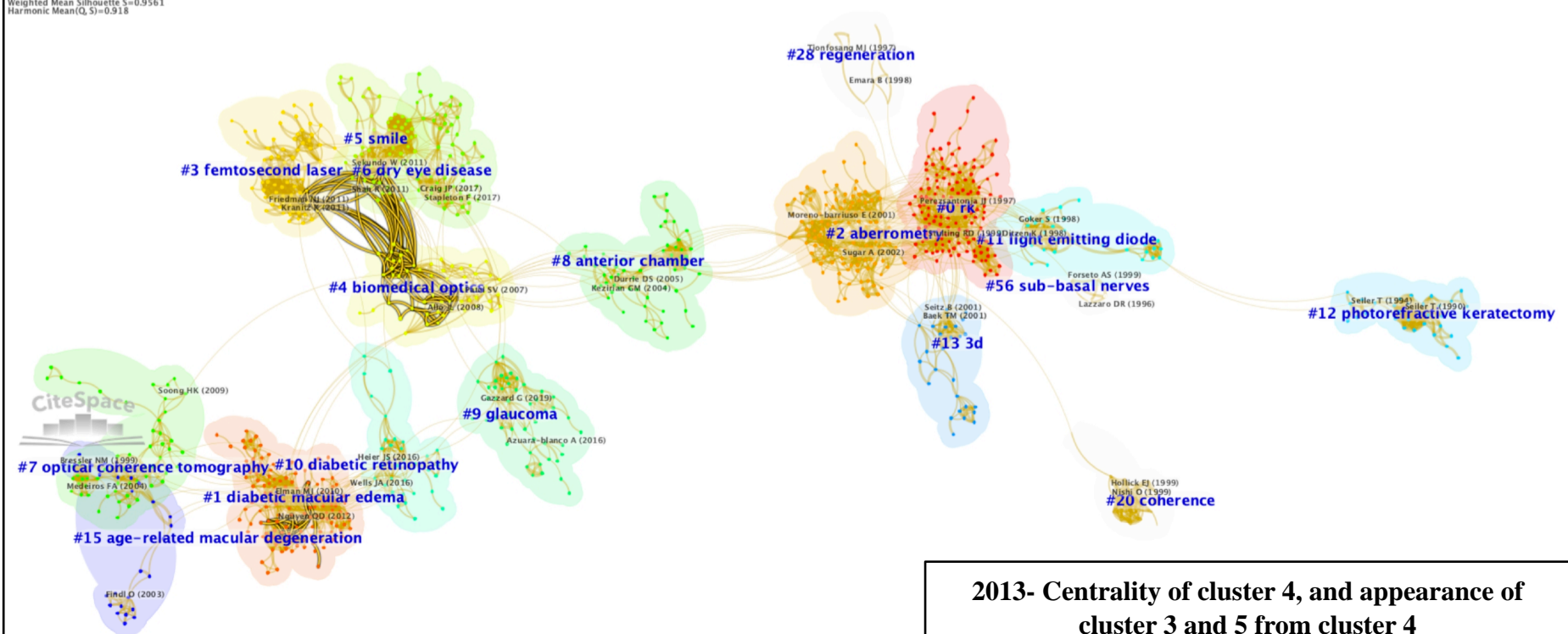
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 October 22, 2022 at 2:03:42 PM CST
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 Timespan: 1990-2022 (Slice Length=1)
 Selection Criteria: g-index (k=25), LRF=3.0, L/N=10, LBY=5, e=1.0
 Network: N=1585, E=5696 (Density=0.0045)
 Largest CC: 1004 (63%)
 Nodes Labeled: 1.0%
 Pruning: None
 Modularity Q=0.8828
 Weighted Mean Silhouette S=0.9561
 Harmonic Mean(Q, S)=0.918



CiteSpace, v. 6.1.R3 (64-bit) Advanced
 October 22, 2022 at 2:03:42 PM CST
 WoS: /Users/ellen/Desktop/laser/data
 Timespan: 1990-2022 (Slice Length=1)
 Selection Criteria: g-index (k=25), LRF=3.0, L/N=10, LBY=5, e=1.0
 Network: N=1585, E=5696 (Density=0.0045)
 Largest CC: 1004 (63%)
 Nodes Labeled: 1.0%
 Pruning: None
 Modularity Q=0.8828
 Weighted Mean Silhouette S=0.9561
 Harmonic Mean(Q, S)=0.918

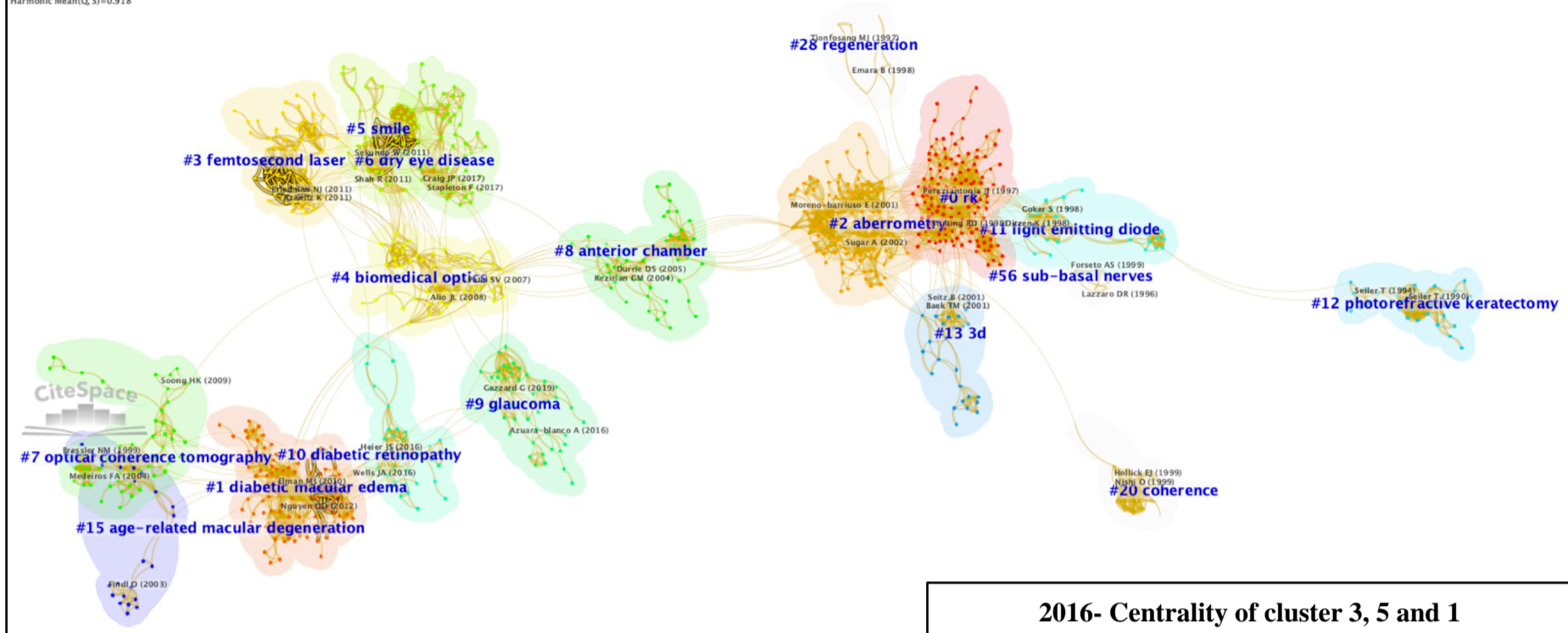


CiteSpace, v. 6.1.R3 (64-bit) Advanced
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 WoS: /Users/ellen/Desktop/laser/data
 Timespan: 1990-2022 (Slice Length=1)
 Selection Criteria: g-index (k=25), LRF=3.0, L/N=10, LBY=5, e=1.0
 Network: N=1585, E=5696 (Density=0.0045)
 Largest CC: 1004 (63%)
 Nodes Labeled: 1.0%
 Pruning: None
 Modularity Q=0.8828
 Weighted Mean Silhouette S=0.9561
 Harmonic Mean(Q, S)=0.918



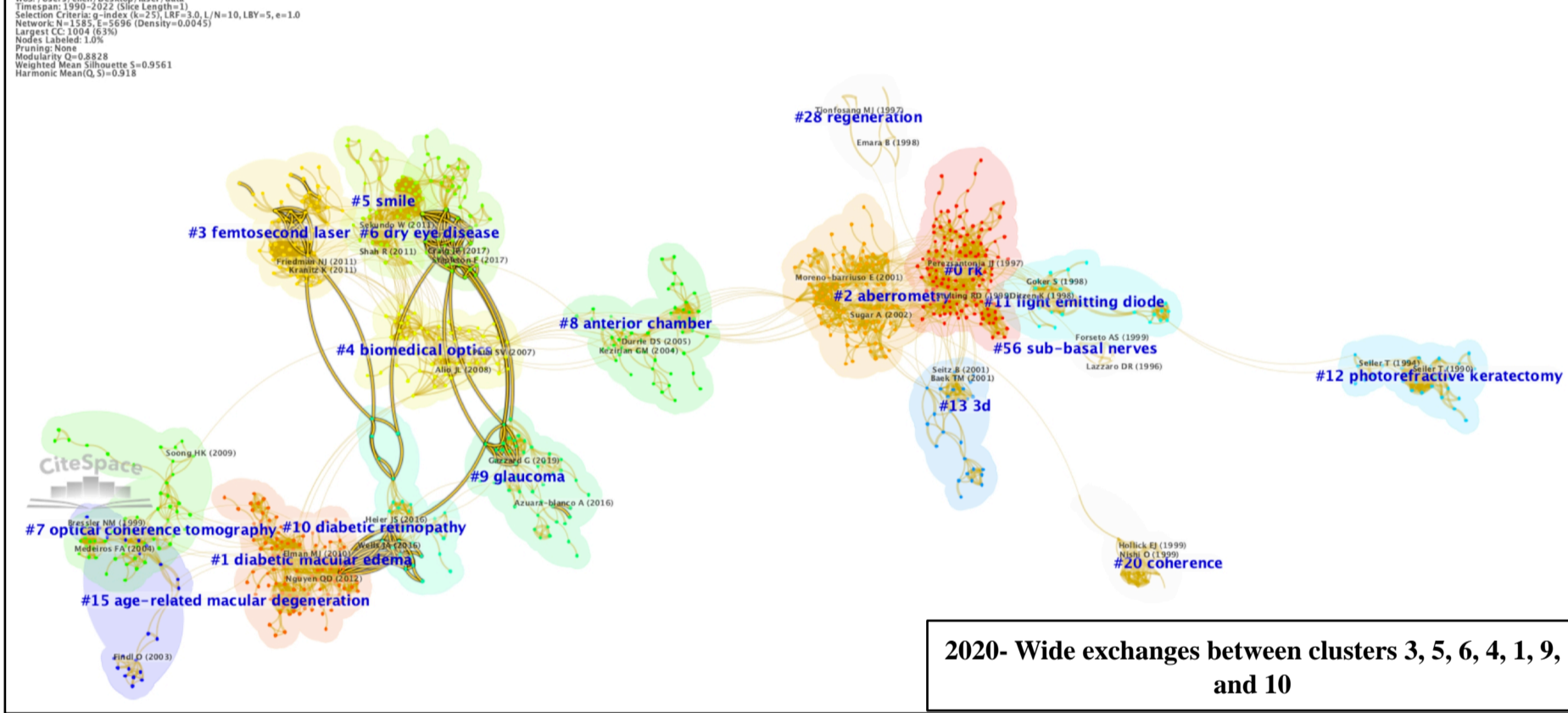
CiteSpace, v. 6.1.R3 (64-bit) Advanced
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 WOS: /Users/ellen/Desktop/laser/data
 Timespan: 1990-2022 (Slice Length=1)
 Selection Criteria: g-index (k=25), LRF=3.0, L/N=10, LBY=5, e=1.0
 Network: N=1585, E=5696 (Density=0.0045)
 Largest CC: 1004 (63%)
 Nodes Labeled: 1.0%
 Pruning: None
 Modularity Q=0.8828
 Weighted Mean Silhouette S=0.9561
 Harmonic Mean(Q, S)=0.918

g-index: 2.5, k=25, LRF=3.0, L/N=10, LBY=5, e=1.0
 Selection Criteria: g-index (k=25), LRF=3.0, L/N=10, LBY=5, e=1.0



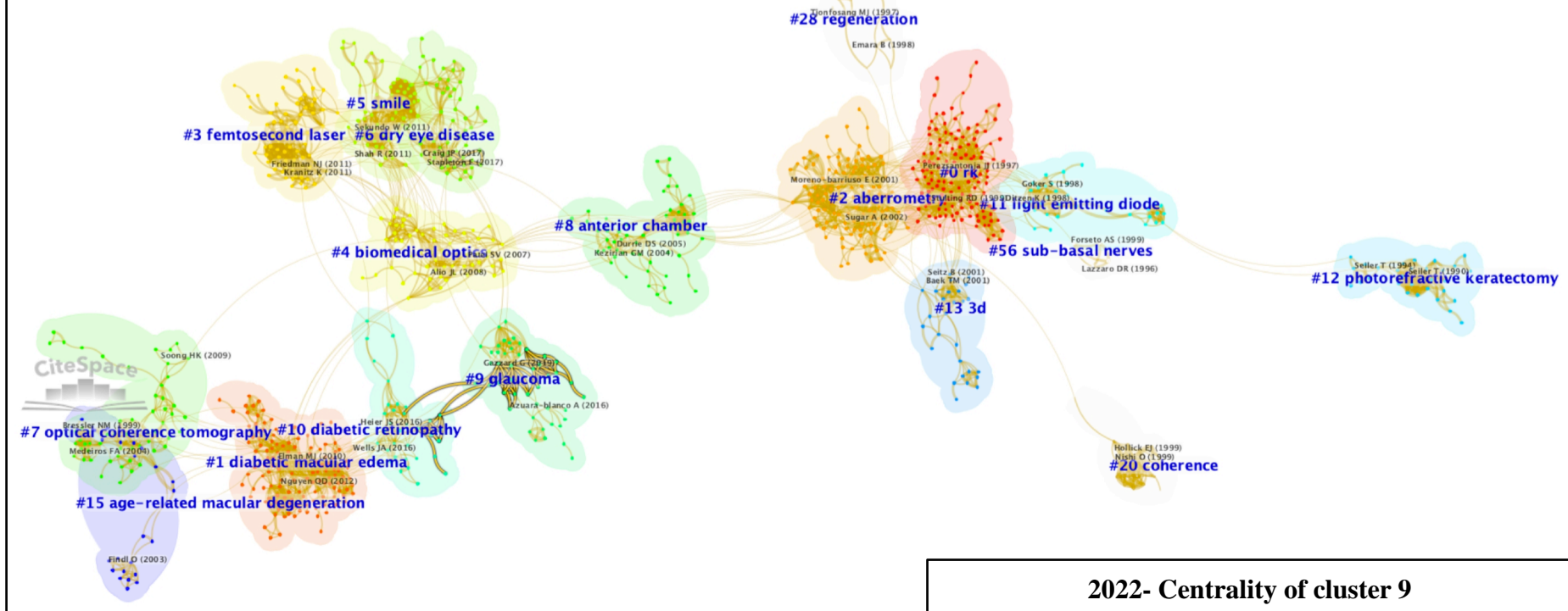
CiteSpace, v. 6.1.R3 (64-bit) Advanced
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 WOS: /Users/ellen/Desktop/laser/data
 Timespan: 1990-2022 (Slice Length=1)
 Selection Criteria: g-index (k=25), LRF=3.0, L/N=10, LBY=5, e=1.0
 Network: N=1585, E=5696 (Density=0.0045)
 Largest CC: 1004 (63%)
 Nodes Labeled: 1.0%
 Pruning: None
 Modularity Q=0.8828
 Weighted Mean Silhouette S=0.9561
 Harmonic Mean(Q, S)=0.918

g-index: 2.5, k=25, LRF=3.0, L/N=10, LBY=5, e=1.0
 Selection Criteria: g-index (k=25), LRF=3.0, L/N=10, LBY=5, e=1.0



CiteSpace, v. 6.1.R3 (64-bit) Advanced
 October 22, 2022 at 2:03:42 PM CST
 WOS: /Users/ellen/Desktop/laser/data
 Timespan: 1990-2022 (Slice Length=1)
 Selection Criteria: g-index (k=25), LRF=3.0, L/N=10, LBY=5, e=1.0
 Network: N=1585, E=5696 (Density=0.0045)
 Largest CC: 1004 (63%)
 Nodes Labeled: 1.0%
 Pruning: None
 Modularity Q=0.8828
 Weighted Mean Silhouette S=0.9561
 Harmonic Mean(Q, S)=0.918

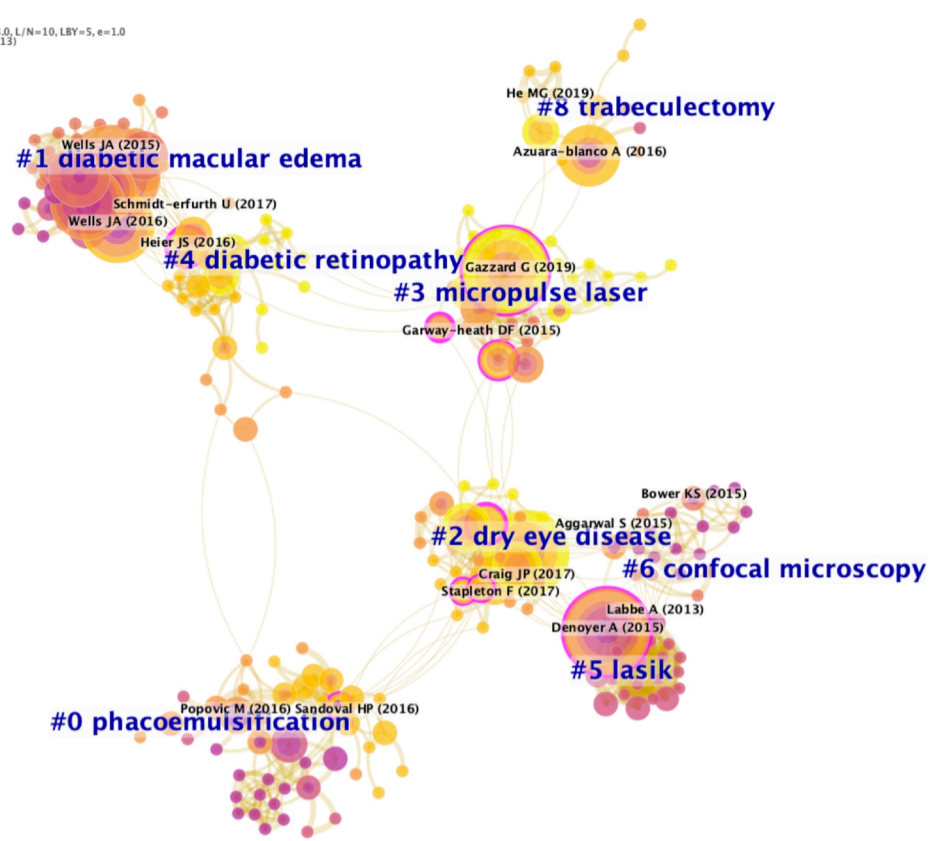
g-index: 2.5, k=25, LRF=3.0, L/N=10, LBY=5, e=1.0
 Selection Criteria: g-index (k=25), LRF=3.0, L/N=10, LBY=5, e=1.0



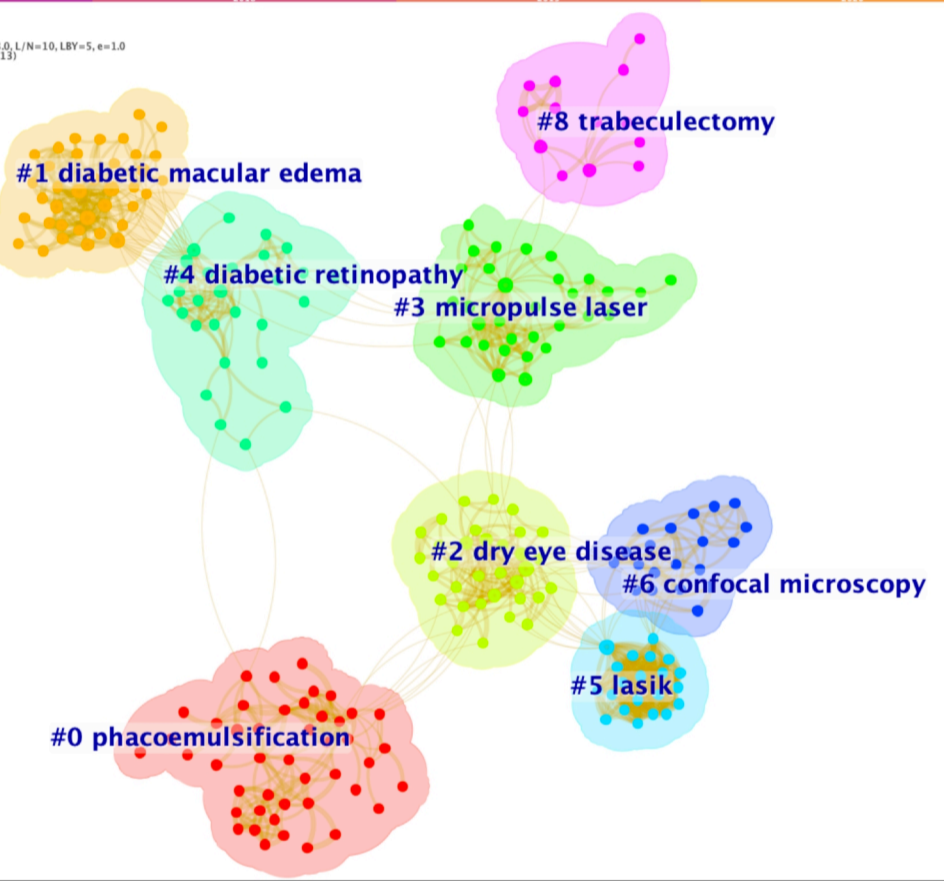
Supplementary Fig. 4. Network of co-cited reference (A) with corresponding clusters (B) and timeline view (C) for the 2017-2022 time period.

A

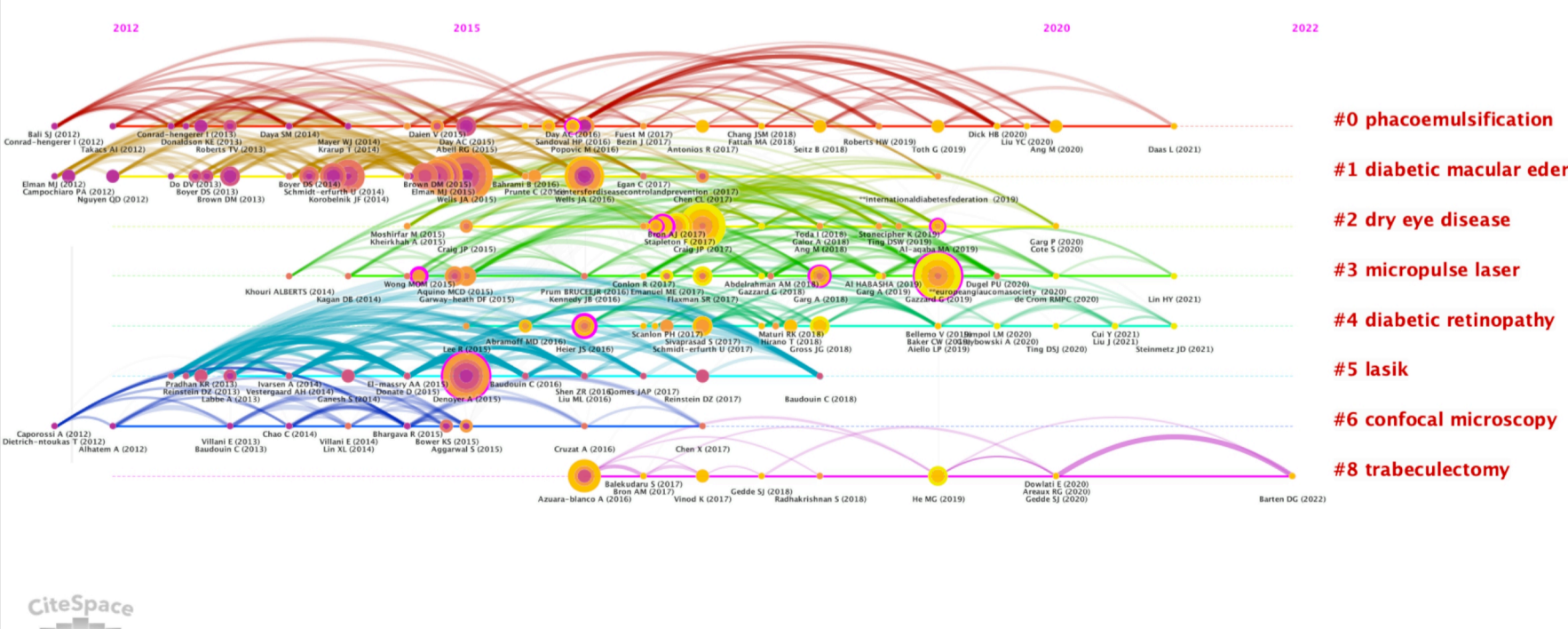
CiteSpace v. 6.1.R3 (64-bit) Advanced
 October 23, 2022 at 10:34:37 AM CST
 WoS: /Users/ellen/Desktop/laser/data
 Timespan: 2017-2022 (Slice Length=1)
 Selection Criteria: g-index (k=25), LRF=3.0, L/N=10, LBY=5, e=1.0
 Network N=332, E=1168 (Density=0.0213)
 Largest CC: 229 (68%)
 Nodes Labeled: 1.0%
 Pruning: None
 Modularity Q=0.8091
 Weighted Mean Silhouette S=0.9341
 Harmonic Mean(Q,S)=0.8671

**B**

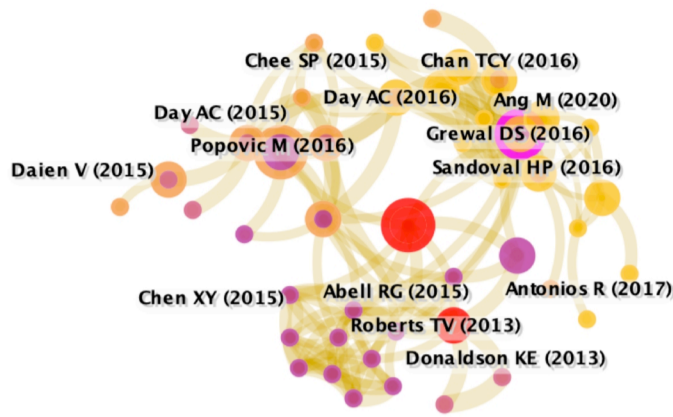
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 Selection Criteria: g-index (k=25), LRF=3.0, L/N=10, LBY=5, e=1.0
 Network N=332, E=1168 (Density=0.0213)
 Largest CC: 229 (68%)
 Nodes Labeled: 1.0%
 Pruning: None
 Modularity Q=0.8091
 Weighted Mean Silhouette S=0.9341
 Harmonic Mean(Q,S)=0.8671

**C**

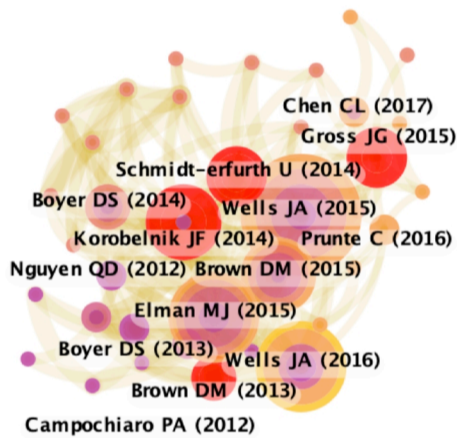
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 Selection Criteria: g-index (k=25), LRF=3.0, L/N=10, LBY=5, e=1.0
 Network N=332, E=1168 (Density=0.0213)
 Largest CC: 229 (68%)
 Nodes Labeled: 1.0%
 Pruning: None
 Modularity Q=0.8091
 Weighted Mean Silhouette S=0.9341
 Harmonic Mean(Q,S)=0.8671



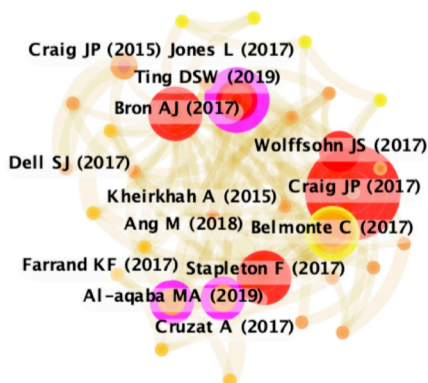
Supplementary Fig. 5. Detail focus on all 8 extracted clusters of the co-citation reference networks ranked by burstness of citations for the time period 2017- 2022.



Cluster 0- ‘phacoemulsification’: phacoemulsification (13.24, 0.001); cataract surgery (8.77, 0.005); femtosecond laser-assisted cataract surgery (4.36, 0.05); posterior capsule rupture (4.36, 0.05); femtosecond laser-assisted cataract surgery (4.36, 0.05)

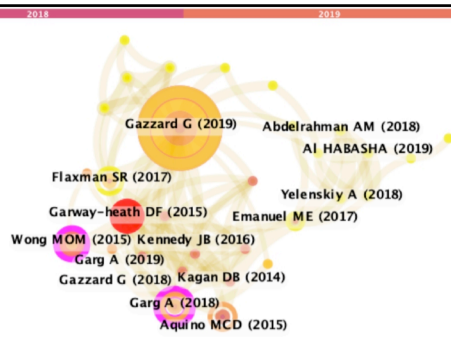


Cluster 1- ‘diabetic macular edema’: diabetic macular edema (13.01, 0.001); ranibizumab (8.15, 0.005); clinical trials (4.66, 0.05); anti-vegf (4.66, 0.05); vascular endothelial growth factor inhibitors (4.08, 0.05)



Cluster 2- ‘dry eye disease’: dry eye disease (12.54, 0.001); meibomian gland dysfunction (10.14, 0.005); diabetic retinopathy (5.47, 0.05); intense pulsed light (5.04, 0.05); ocular surface disease (5.04, 0.05)

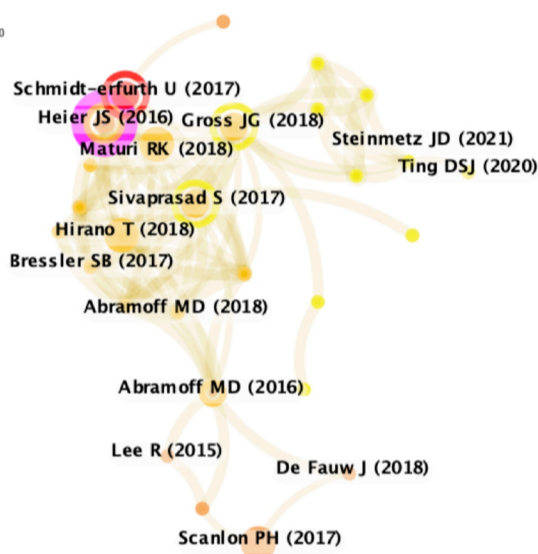
2017
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 Selection Criteria: g-index (k=25), LRF=3.0, L/N=10, LBY=5, e=1.0
 Network: N=332, E=1168 (Density=0.0213)
 Largest CC: 229 (68%)
 Nodes Labeled: 1.0%
 Pruning: None
 Modularity Q=0.8091
 Weighted Mean Silhouette S=0.9341
 Harmonic Mean(Q, S)=0.8671



Cluster 3- ‘micropulse laser’: micropulse laser (9.43, 0.005); glaucoma (5.44, 0.05); inflammatory cascade (4.68, 0.05); antiangiogenic agents (4.68, 0.05); transscleral diode cyclophotocoagulation (4.68, 0.05)

CiteSpace

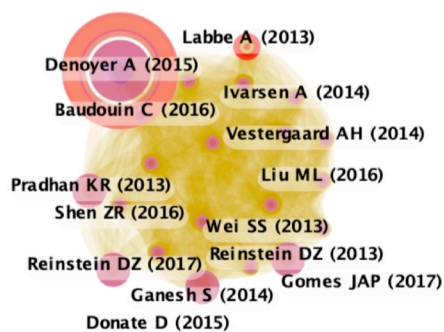
2017
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 Network: N=332, E=1168 (Density=0.0213)
 Largest CC: 229 (68%)
 Nodes Labeled: 1.0%
 Pruning: None
 Modularity Q=0.8091
 Weighted Mean Silhouette S=0.9341
 Harmonic Mean(Q, S)=0.8671



Cluster 4- ‘diabetic retinopathy’: diabetic retinopathy (12.12, 0.001); screening (8.65, 0.005); diabetic eye disease (8.65, 0.005); deep learning (8.65, 0.005); artificial intelligence (4.3, 0.05)

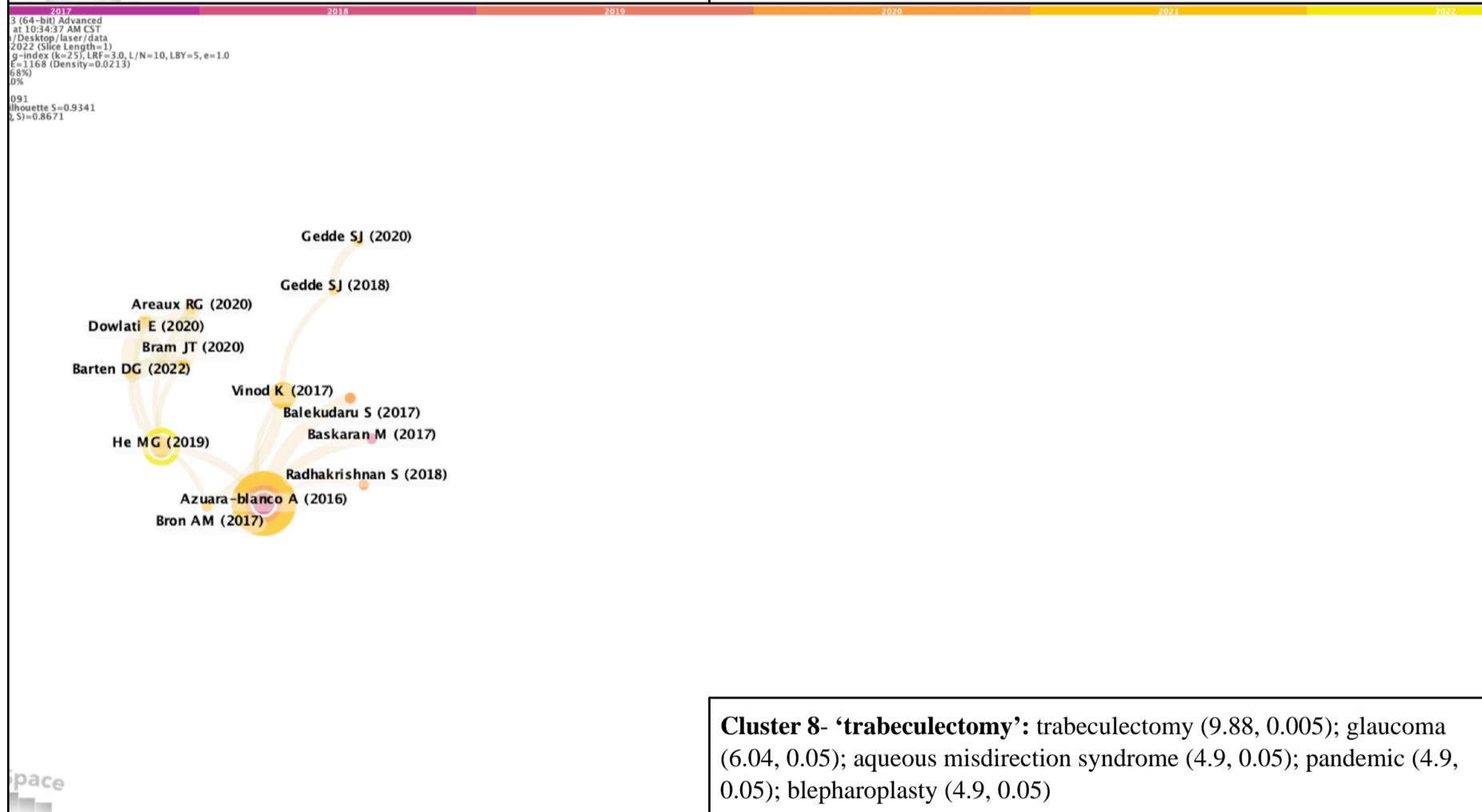
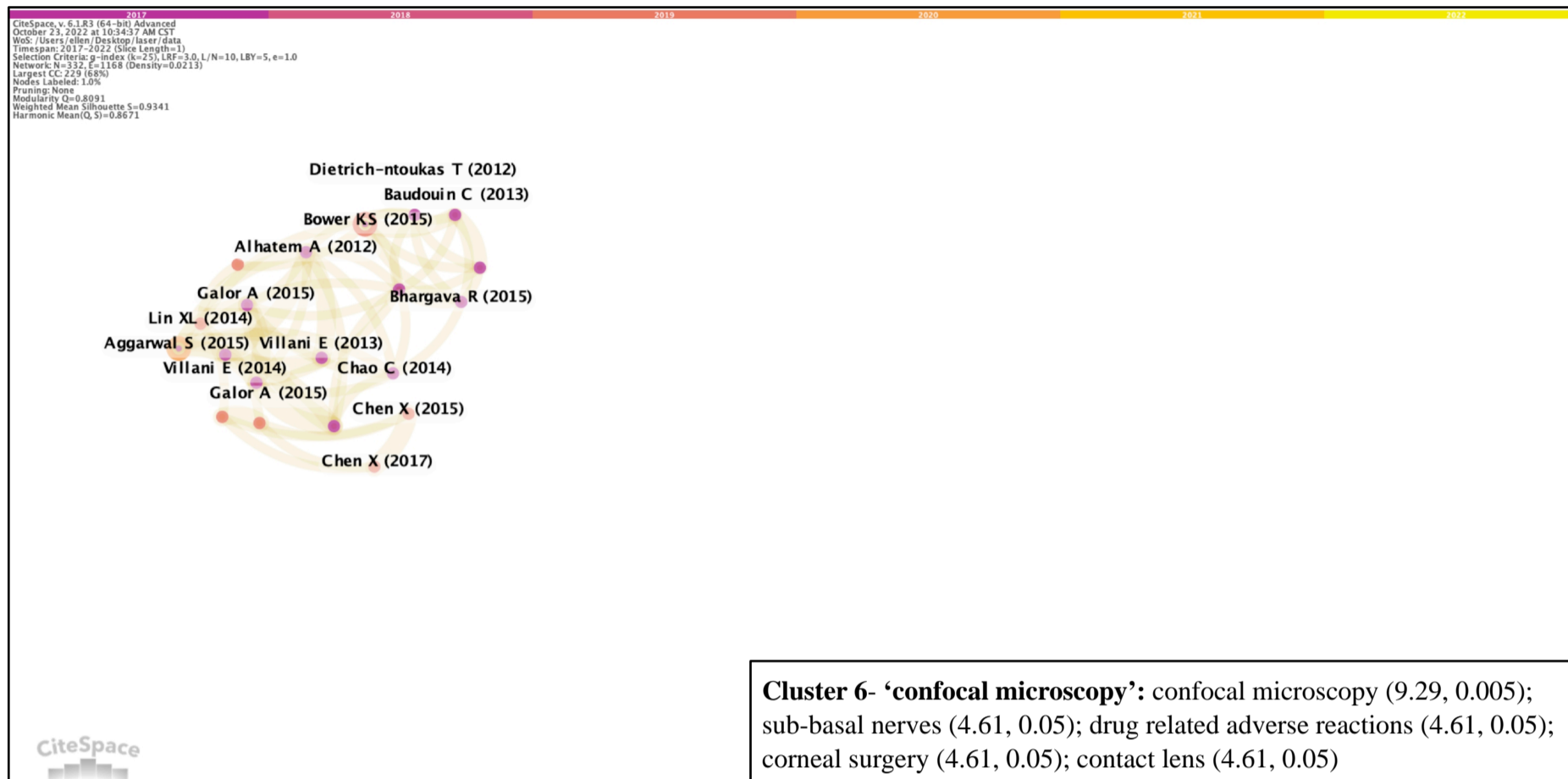
pace

2017
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 Timespan: 2017~2022 (Slice Length=1)
 Selection Criteria: g-index (k=25), LRF=3.0, L/N=10, LBY=5, e=1.0
 Network: N=332, E=1168 (Density=0.0213)
 Largest CC: 229 (68%)
 Nodes Labeled: 1.0%
 Pruning: None
 Modularity Q=0.8091
 Weighted Mean Silhouette S=0.9341
 Harmonic Mean(Q, S)=0.8671



Cluster 5- ‘lasik’: lasik (11.2, 0.001); smile (11.2, 0.001); cornea (5.9, 0.05); corneenne (5.55, 0.05); corneal biomechanics (5.55, 0.05)

CiteSpace

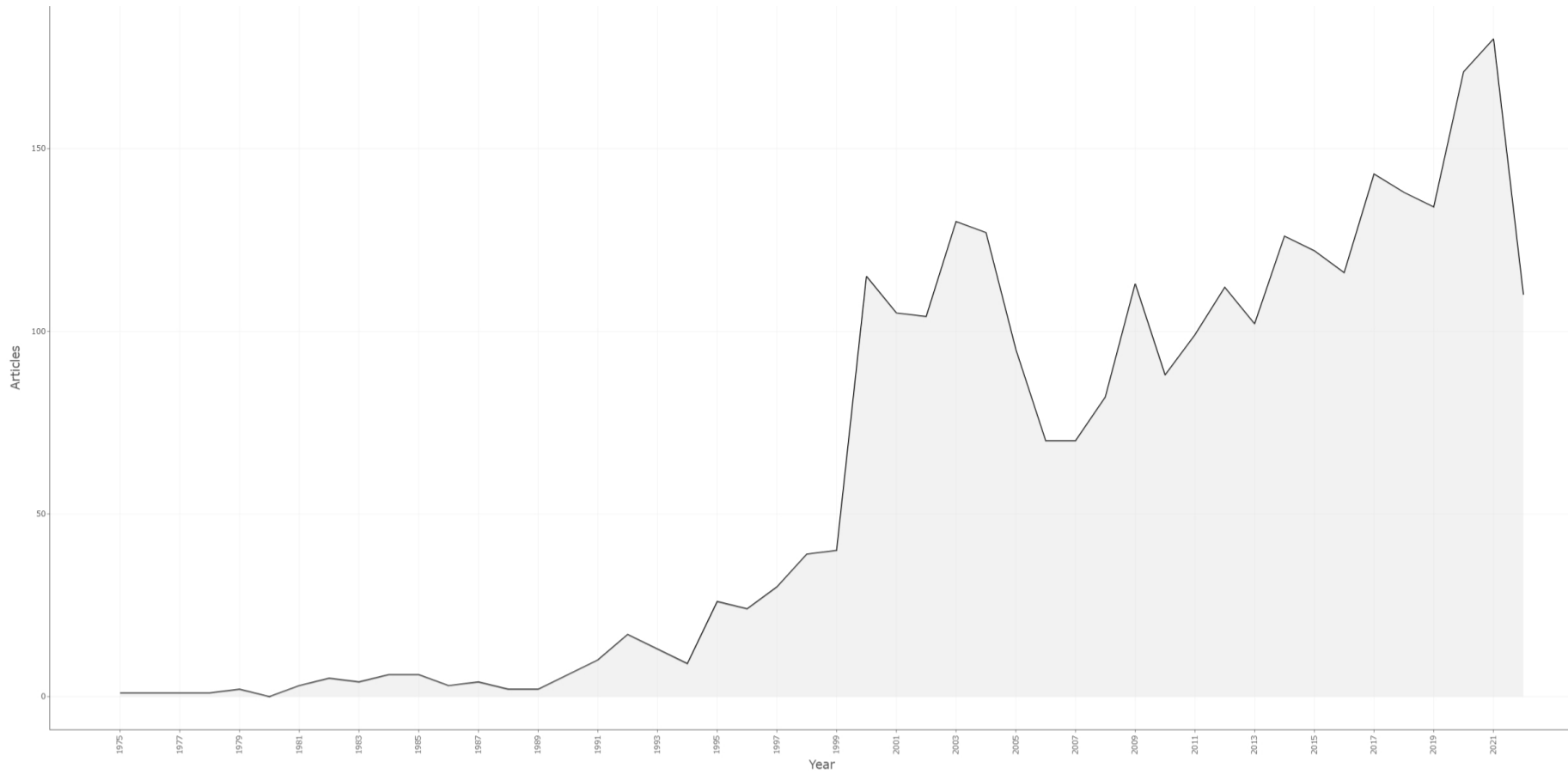
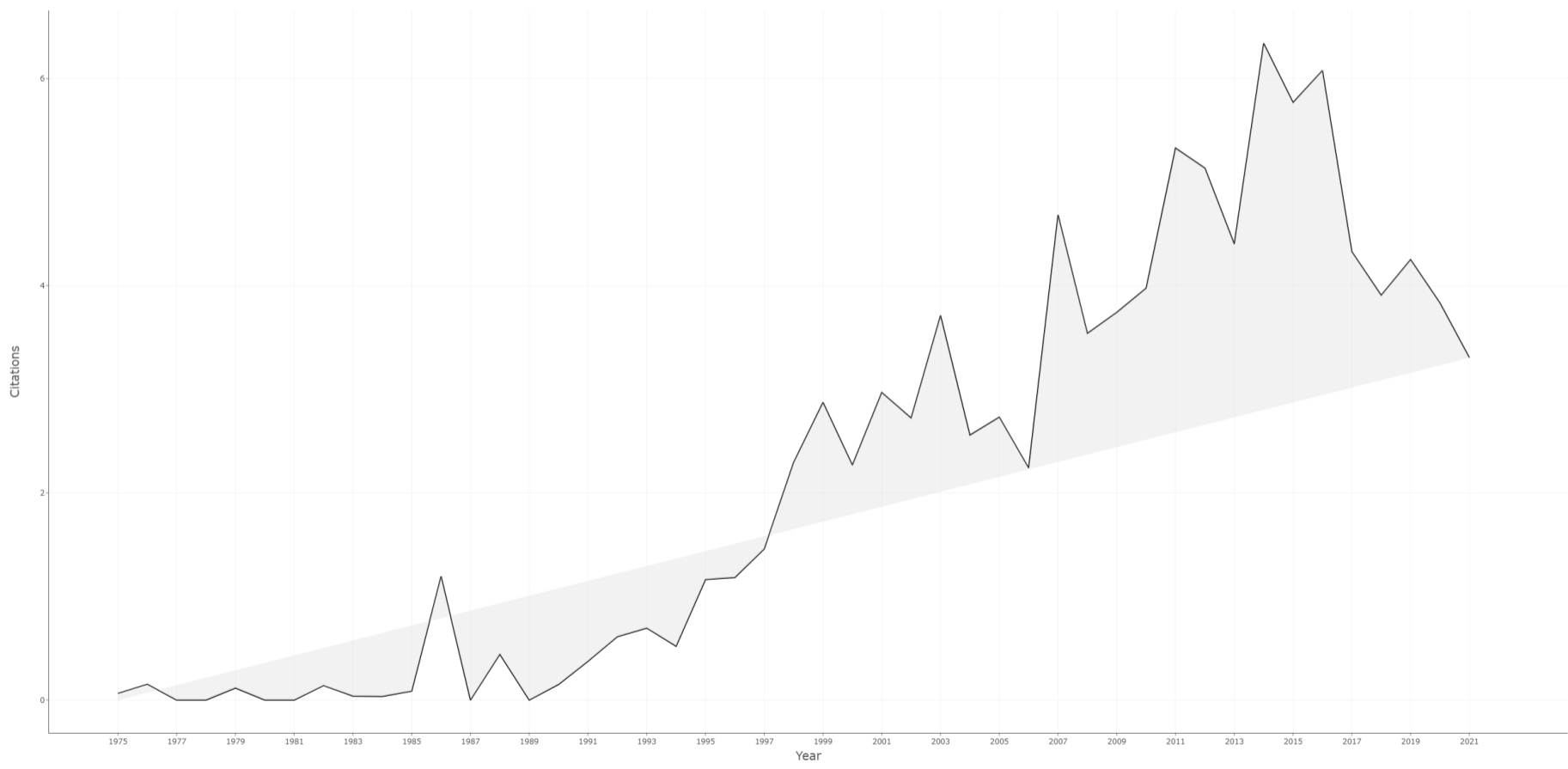


Supplementary Fig. 6. Trend analysis of top 34 co-occurring authors' keywords from 1990 to 2022 (A), overlay visualization of co-occurring authors' keywords (B), and scored on the average publication year (C).

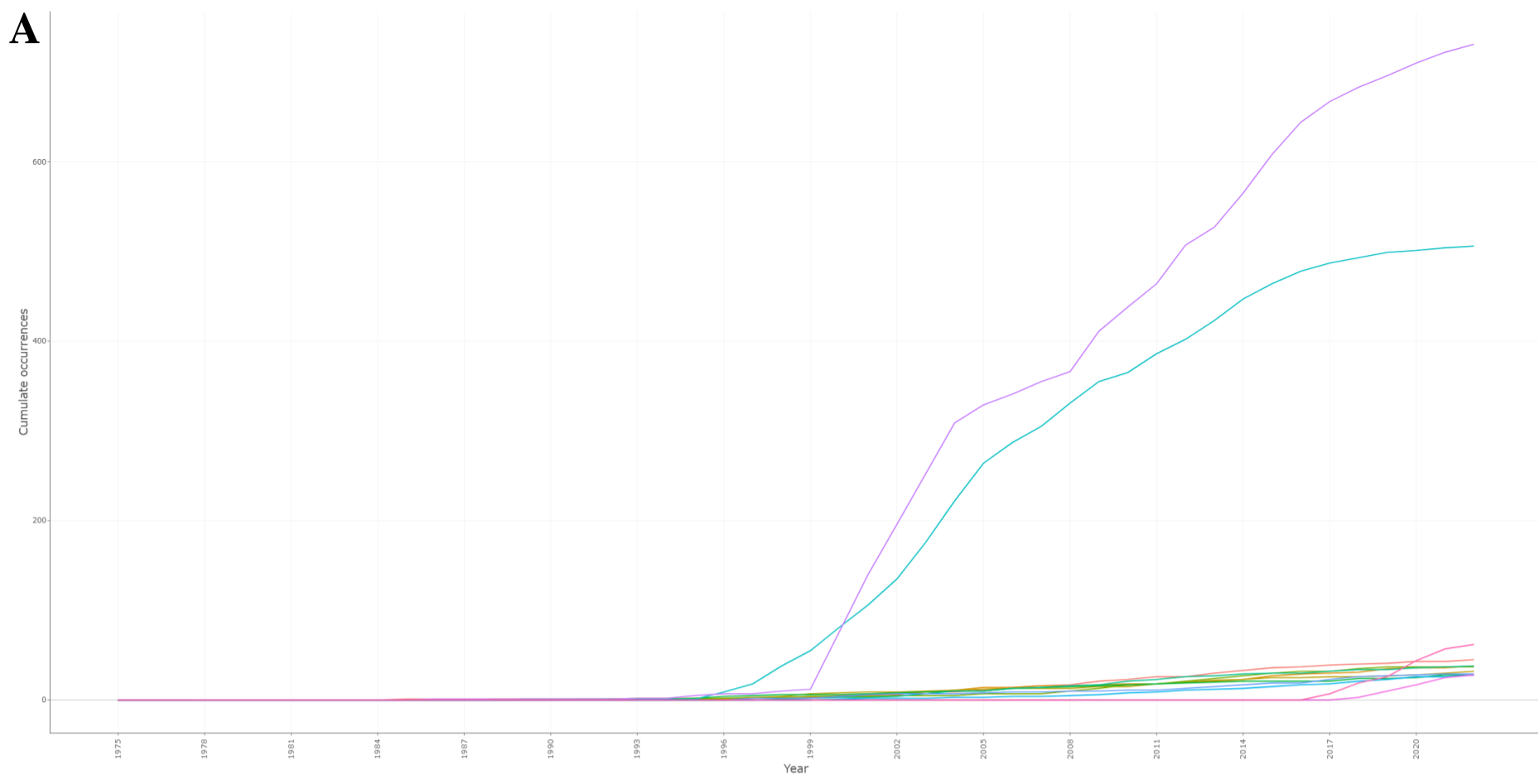
Note: 360 items are represented within 4 clusters. The nodes represent keywords and the colors show the average year of publication for each node. The size of a node is proportional to the frequency of keyword co-occurrence.

The co-occurrence network is weighted on total link strength across different keyword nodes, and scored on the average publication years from 1990 to 2022.

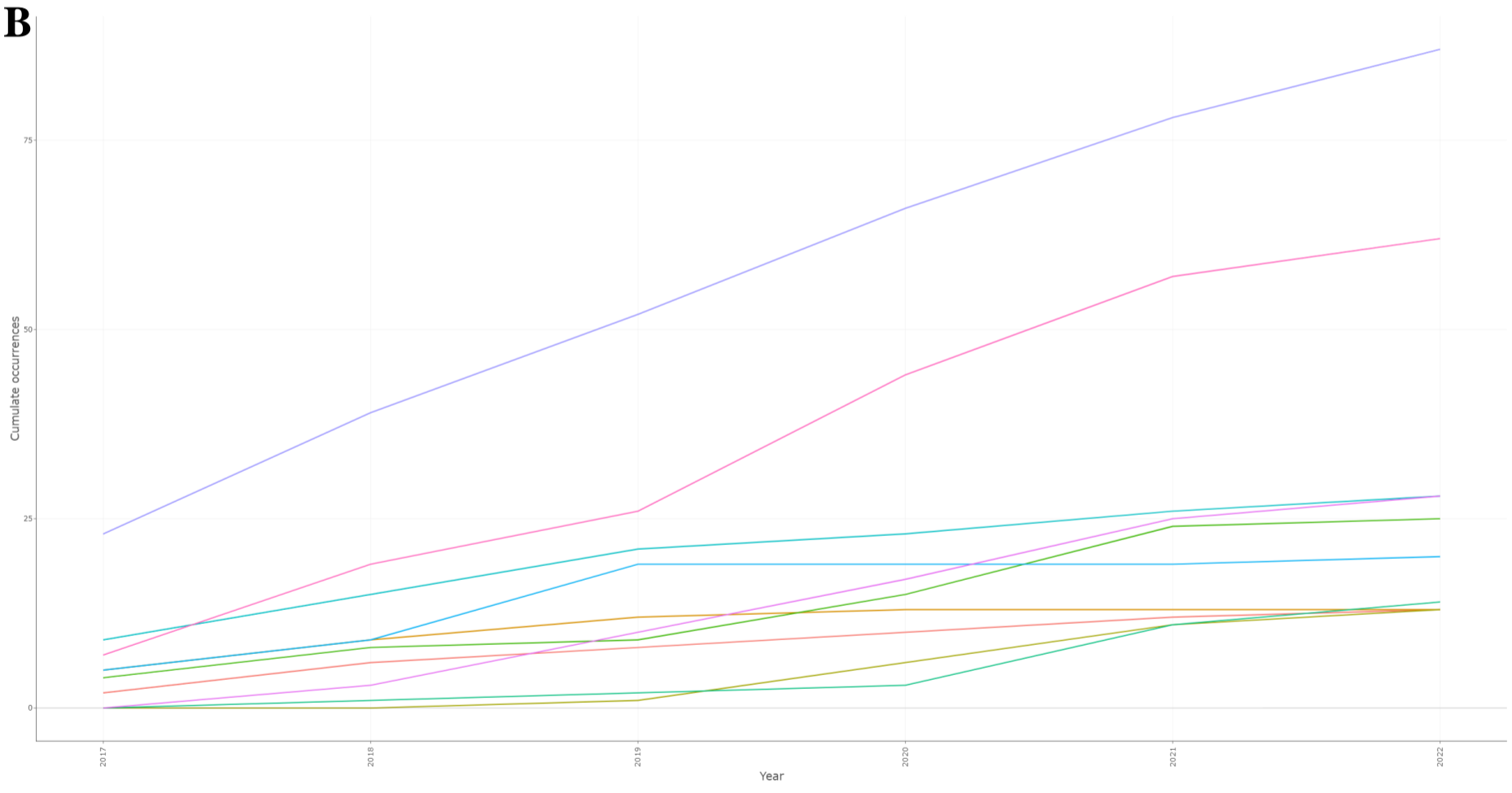
Supplementary Fig. 7. Annual scientific production (A) and average citation per year for references (B) (1990-2022)

A**B**

Supplementary Fig. 8. Top 10 growth source (1990-2022 and 2017-2022)

A

Source: AMERICAN JOURNAL OF OPHTHALMOLOGY BRITISH JOURNAL OF OPHTHALMOLOGY EYE INVESTIGATIVE OPHTHALMOLOGY & VISUAL SCIENCE JOURNAL FRANCAIS D OPHTHALMOLOGIE JOURNAL OF BIOMEDICAL OPTICS JOURNAL OF CATARACT AND REFRACTIVE SURGERY JOURNAL OF GLAUCOMA OPTHALMOLOGIE OPTHALMOLOGY OPTHALMOLOGY GLAUCOMA OPTHALMOLOGY RETINA

B

Source: ACTA OPHTHALMOLOGICA ADVANCES IN THERAPY BMJ CASE REPORTS CLINICAL OPHTHALMOLOGY EUROPEAN JOURNAL OF OPHTHALMOLOGY JOURNAL OF CATARACT AND REFRACTIVE SURGERY JOURNAL OF CURRENT OPHTHALMOLOGY OPTHALMOLOGY OPTHALMOLOGY GLAUCOMA OPTHALMOLOGY RETINA

Supplementary Fig. 9. Overlay visualization of most cited journals for the last 5 years (A), and most co-cited journals which published the most articles in last 20 years (B).

Figure A is obtained with CiteSpace and Figure B with VOSviewer.

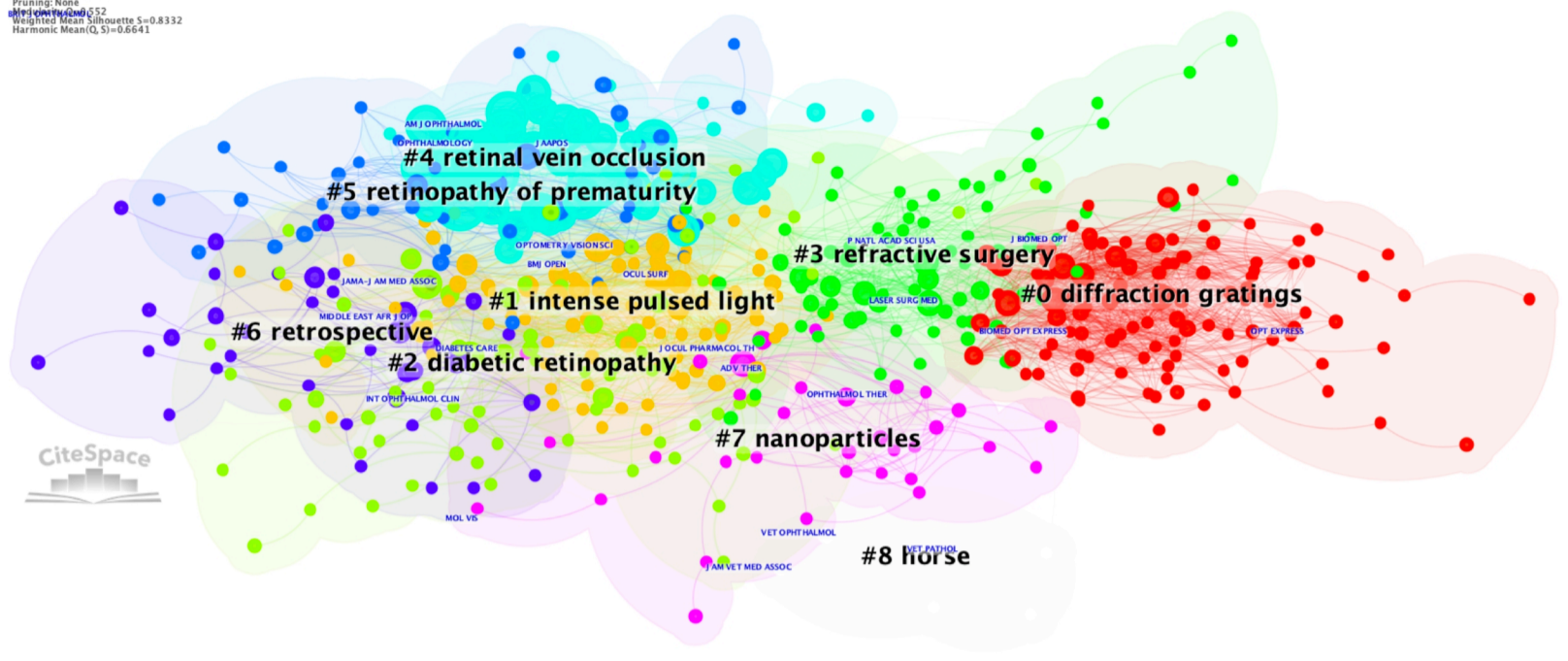
(A) 9 clusters are identified.

(B) Weighted on documents, 365 journals with 6 clusters are identified.

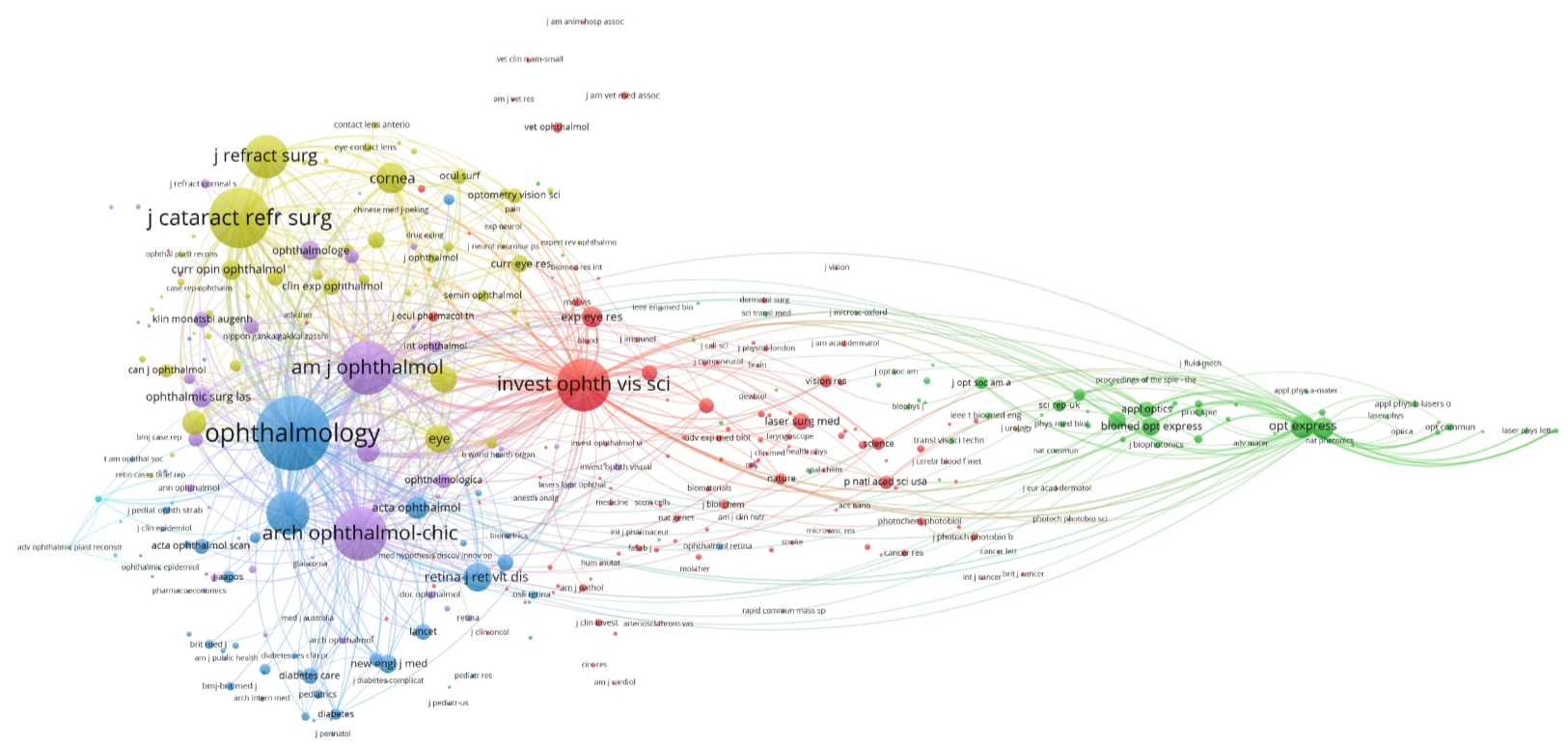
A

2017 2018 2019 2020 2021 2022

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 Network: N=565, E=3579 (Density=0.0225)
 Largest CC: 533 (94%)
 Nodes Labeled: 1.0%
 Pruning: None
 Modularity Q=0.52
 Weighted Mean Silhouette S=0.8332
 Harmonic Mean(Q, S)=0.6641



B



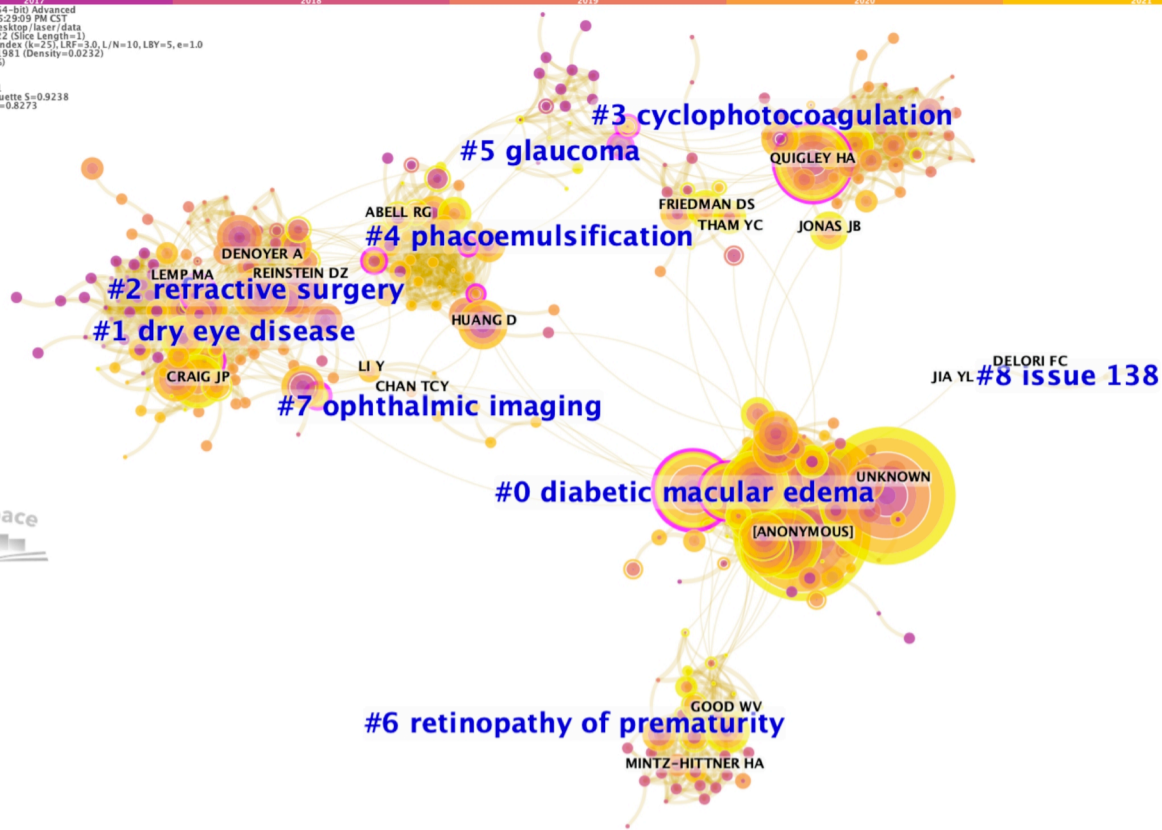
Supplementary Fig. 10. Co-authorship network obtained with VOSviewer.

69 clusters are identified comprising 396 different authors. Each cluster is identified with a different color.

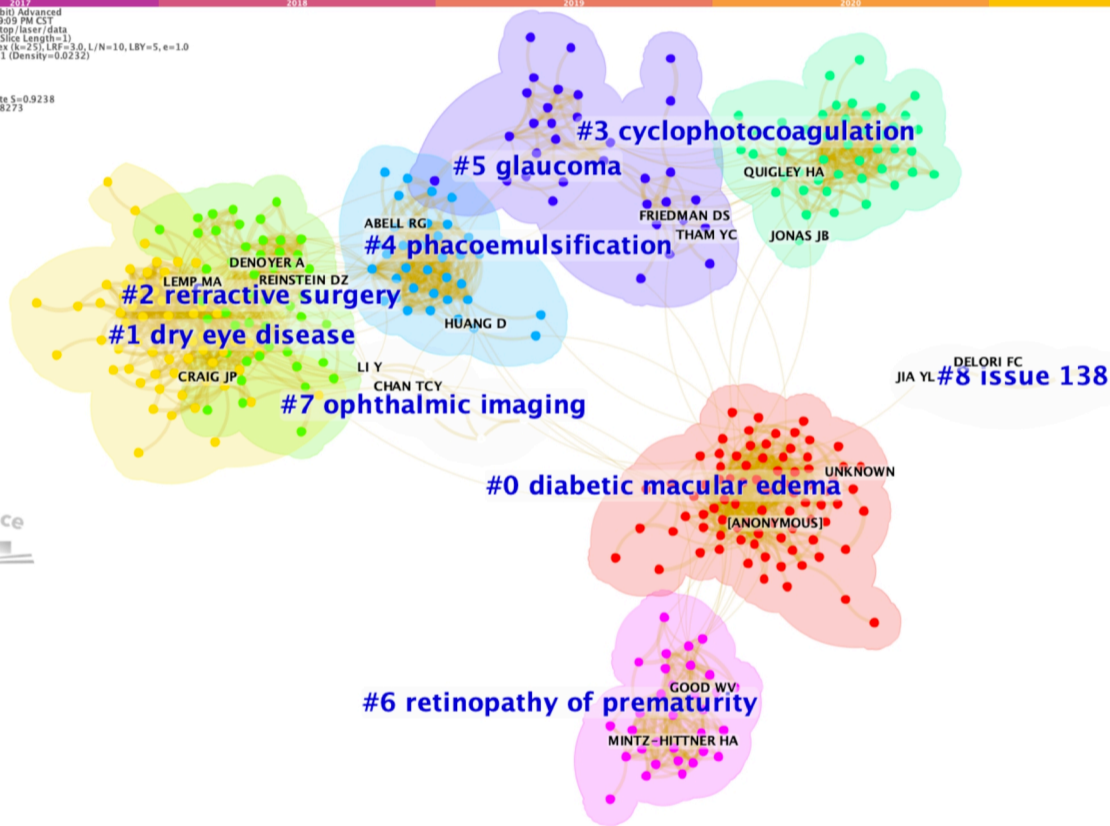
Supplementary Fig. 11. Visualization of the author co-citation network (A), with corresponding clusters (B) and time map (C) (2017-2022)

A

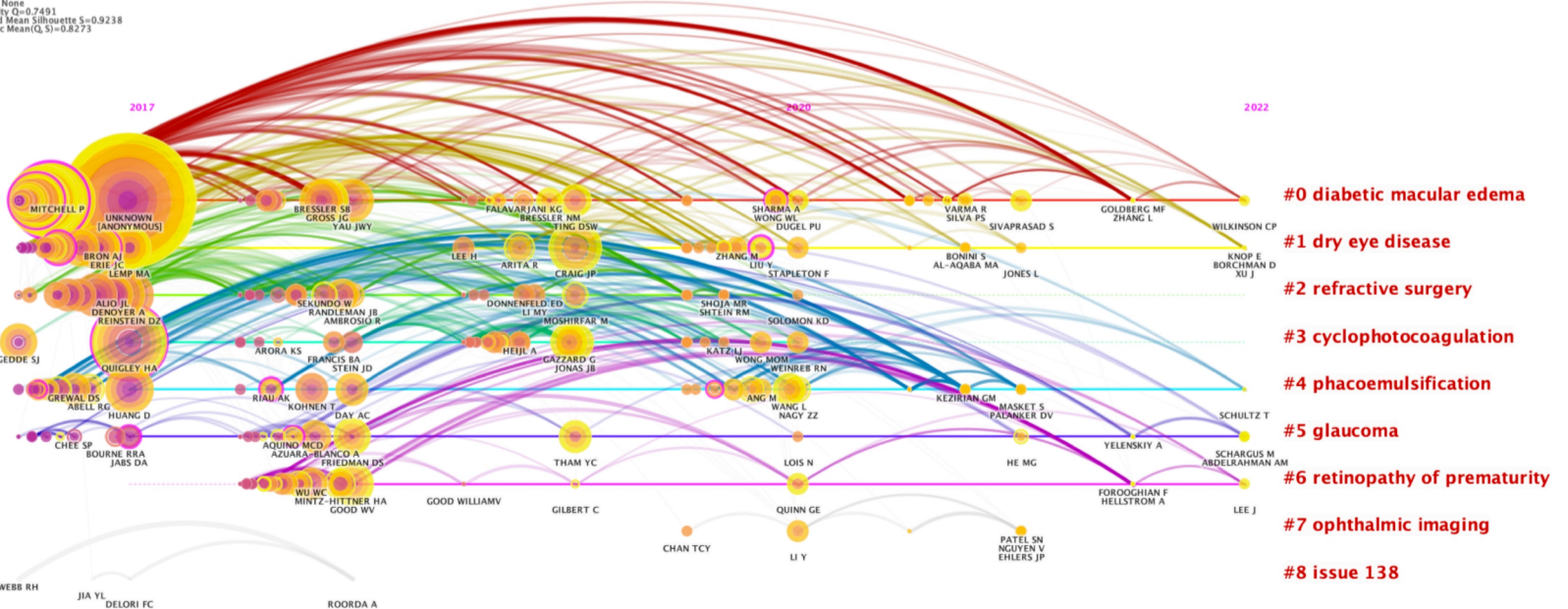
CiteSpace, v. 6.1.R3 (64-bit) Advanced
 October 23, 2022 at 5:29:09 PM CST
 WoS: /Users/ellen/Desktop/laser/data
 Timespan: 2017-2022 (Slice Length=1)
 Selection Criteria: g-index (k=25), LRF=3.0, L/N=10, LBY=5, e=1.0
 Network: N=414, E=1981 (Density=0.0232)
 Largest CC: 354 (85%)
 Nodes Labeled: 1.0%
 Pruning: None
 Modularity Q=0.7491
 Weighted Mean Silhouette S=0.9238
 Harmonic Mean(Q,S)=0.8273

**B**

CiteSpace, v. 6.1.R3 (64-bit) Advanced
 October 23, 2022 at 5:29:09 PM CST
 WoS: /Users/ellen/Desktop/laser/data
 Timespan: 2017-2022 (Slice Length=1)
 Selection Criteria: g-index (k=25), LRF=3.0, L/N=10, LBY=5, e=1.0
 Network: N=414, E=1981 (Density=0.0232)
 Largest CC: 354 (85%)
 Nodes Labeled: 1.0%
 Pruning: None
 Modularity Q=0.7491
 Weighted Mean Silhouette S=0.9238
 Harmonic Mean(Q,S)=0.8273

**C**

CiteSpace, v. 6.1.R3 (64-bit) Advanced
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 WoS: /Users/ellen/Desktop/laser/data
 Timespan: 2017-2022 (Slice Length=1)
 Selection Criteria: g-index (k=25), LRF=3.0, L/N=10, LBY=5, e=1.0
 Network: N=414, E=1981 (Density=0.0232)
 Largest CC: 354 (85%)
 Nodes Labeled: 1.0%
 Pruning: None
 Modularity Q=0.7491
 Weighted Mean Silhouette S=0.9238
 Harmonic Mean(Q,S)=0.8273

**D**

CiteSpace, v. 6.1.R3 (64-bit) Advanced
 October 23, 2022 at 5:29:09 PM CST
 WoS: /Users/ellen/Desktop/laser/data
 Timespan: 2017-2022 (Slice Length=1)
 Selection Criteria: g-index (k=25), LRF=3.0, L/N=10, LBY=5, e=1.0
 Network: N=414, E=1981 (Density=0.0232)
 Largest CC: 354 (85%)
 Nodes Labeled: 1.0%
 Pruning: None
 Modularity Q=0.7491
 Weighted Mean Silhouette S=0.9238
 Harmonic Mean(Q,S)=0.8273



Supplementary Table 1. Co-cited reference network detailed clusters (1990-2022)

Cluster ID	Size	Silhouette score	Mean (Year)	Top five extracted terms based on keywords (Log-likelihood ratio algorithm; p-level)	Representative reference
0	141	0.924	1997	rk (8.02, 0.005); epikeratophakia (8.02, 0.005); nerves (8.02, 0.005); iscs (8.02, 0.005); inflammation (5.28, 0.05)	MJ, MALDONADO (2002.0) Undersurface ablation of the flap for laser in situ keratomileusis retreatment. OPTHALMOLOGY, V109, P12 DOI 10.1016/S0161-6420(02)01096-5
1	134	0.967	2010	diabetic macular edema (13.76, 0.001); ranibizumab (8.75, 0.005); retinal laser photocoagulation (8.64, 0.005); intravitreal therapy (8.64, 0.005); vitrectomy (8.64, 0.005)	WILLIAM, E SMIDDY (2012.0) Clinical applications of cost analysis of diabetic macular edema treatments. OPTHALMOLOGY DOI 10.1016/j.ophtha.2012.09.015
2	121	0.931	2001	aberrometry (15.39, 1.0E-4); refractive surgery (8.78, 0.005); contrast perception (7.6, 0.01); optical quality (7.6, 0.01); wavefront (7.6, 0.01)	B, NEERACHER (2004.0) Glare sensitivity and optical side effects 1 year after photorefractive keratectomy and laser in situ keratomileusis. JOURNAL OF CATARACT AND REFRACTIVE SURGERY DOI 10.1016/j.jcrs.2003.12.058
3	75	0.984	2014	femtosecond laser (6.87, 0.01); posterior capsule rupture (6.07, 0.05); femtosecond laser-assisted cataract surgery (6.07, 0.05); zonular dehiscence (6.07, 0.05); laser-induced breakdown (6.07, 0.05)	MARKO, POPOVIC (2016.0) Efficacy and safety of femtosecond laser-assisted cataract surgery compared with manual cataract surgery a meta-analysis of 14 567 eyes. OPTHALMOLOGY, V123, P14 DOI 10.1016/j.ophtha.2016.07.005
4	66	0.937	2008	biomedical optics (5.05, 0.05); mmp-9 (5.05, 0.05); bioptics (5.05, 0.05); intracorneal ring (5.05, 0.05); diffuse lamellar keratitis (5.05, 0.05)	AYAD, A FARJO (2013.0) Femtosecond lasers for lasik flap creation a report by the american academy of ophthalmology. OPTHALMOLOGY, V120, P16 DOI 10.1016/j.ophtha.2012.08.013
5	63	0.973	2012	smile (18.21, 1.0E-4); myopia (12.05, 0.001); corneenne (5.98, 0.05); fs-lasik (5.98, 0.05); corneal biomechanics (5.98, 0.05)	A, CHICHE (2018.0) Smile (small incision lenticule extraction) among the corneal refractive surgeries in 2018 (french translation of the article). JOURNAL FRANCAIS D OPTHALMOLOGIE DOI 10.1016/j.jfo.2018.03.006
6	58	0.901	2015	dry eye disease (18.69, 1.0E-4); meibomian gland dysfunction (10.61, 0.005); dry eye (8.49, 0.005); corneal nerves (7.94, 0.005); diabetic retinopathy (7.6, 0.01)	DOREEN, SCHMIDL (2020.0) Novel approaches for imaging-based diagnosis of ocular surface disease. DIAGNOSTICS DOI 10.3390/diagnostics10080589
7	57	0.989	2006	optical coherence tomography (7.3, 0.01); coherence (5.46, 0.05); adaptive optics (5.46, 0.05); ultrahigh resolution imaging (5.46, 0.05); fourier-domain optical coherence tomography (5.46, 0.05)	SHAN, C LIN (2007.0) Optic nerve head and retinal nerve fiber layer analysis - a report by the american academy of ophthalmology. OPTHALMOLOGY, V114, P13 DOI 10.1016/j.ophtha.2007.07.005
8	57	0.962	2005	anterior chamber (8.89, 0.005); morphometry (8.89, 0.005); contact lens (6.14, 0.05); optical coherence tomography (5.12, 0.05); imaging (4.46, 0.05)	STEVEN, C SCHALLHORN (2008.0) Wavefront-guided lasik for the correction of primary myopia and astigmatism - a report by the american academy of ophthalmology. OPTHALMOLOGY, V115, P13 DOI 10.1016/j.ophtha.2008.04.010
9	47	0.943	2017	glaucoma (16.52, 1.0E-4); trabeculectomy (8.21, 0.005); lasers (8.21, 0.005); micropulse laser (8.21, 0.005); ocular hypertension (8.21, 0.005)	GUS, GAZZARD (2019.0) Selective laser trabeculectomy versus drops for newly diagnosed ocular hypertension and glaucoma: the light ret. HEALTH TECHNOLOGY ASSESSMENT, V23, P103 DOI 10.3310/hta23310
10	34	0.975	2017	diabetic retinopathy (12.34, 0.001); screening (9.11, 0.005); diabetic eye disease (9.11, 0.005); deep learning (9.11, 0.005); diabetic macular edema (6.14, 0.05)	MICHAEL, J GALE (2021.0) Diabetic eye disease: a review of screening and management recommendations. CLINICAL AND EXPERIMENTAL OPTHALMOLOGY, V49, P18 DOI 10.1111/ceo.13894
11	34	0.976	1997	light emitting diode (NaN, 1.0); coherence (NaN, 1.0); regeneration (NaN, 1.0); sub-basal nerves (NaN, 1.0); microneuroma (NaN, 1.0)	MB, MCDONALD (2002.0) Conductive keratoplasty for the correction of low to moderate hyperopia: us clinical trial 1-year results on 355 eyes. OPTHALMOLOGY, V109, P12 DOI 10.1016/S0161-6420(02)01255-1
12	31	1	1991	photorefractive keratectomy (19.07, 1.0E-4); eye (6.26, 0.05); corneal surgery (6.26, 0.05); photoablation (6.26, 0.05); photodisruption (6.26, 0.05)	JM, KRAUSS (1995.0) Lasers in ophthalmology. LASERS IN SURGERY AND MEDICINE, V17, P58 DOI 10.1002/lsm.1900170203
13	27	0.989	2003	3d (10.48, 0.005); uhr-oct (10.48, 0.005); retina (7.72, 0.01); diabetic retinopathy (0.16, 1.0); diabetic macular edema (0.13, 1.0)	MIRJAM, E J VAN VELTHOVEN (2007.0) Recent developments in optical coherence tomography for imaging the retina. PROGRESS IN RETINAL AND EYE RESEARCH, V26, P21 DOI 10.1016/j.preteyeres.2006.10.002
15	25	0.999	2002	age-related macular degeneration (amd) (7.41, 0.01); complement factor h (cfh) (7.41, 0.01); complement factor b (bf) (7.41, 0.01); basal laminar deposit (bland) (7.41, 0.01); bruch's membrane (7.41, 0.01)	GEORGIA, CLEARY (2007.0) Effect of square-edged intraocular lenses on neodymium: yag laser capsulotomy rates in the united states. JOURNAL OF CATARACT AND REFRACTIVE SURGERY DOI 10.1016/j.jcrs.2007.06.056
20	20	0.992	1998	light emitting diode (NaN, 1.0); coherence (NaN, 1.0); regeneration (NaN, 1.0); sub-basal nerves (NaN, 1.0); microneuroma (NaN, 1.0)	DJ, APPLE (2001.0) Eradication of posterior capsule opacification - documentation. of a marked decrease in nd : yag laser posterior capsulotomy rates noted in an analysis of 5416 pseudophakic human eyes obtained postmortem. OPTHALMOLOGY, V108, P14 DOI 10.1016/S0161-6420(00)00589-3
28	10	0.998	1997	light emitting diode (NaN, 1.0); coherence (NaN, 1.0); regeneration (NaN, 1.0); sub-basal nerves (NaN, 1.0); microneuroma (NaN, 1.0)	MS, KOOK (2002.0) Effect of laser in situ keratomileusis on retinal nerve fiber layer thickness measurements by scanning laser polarimetry. JOURNAL OF CATARACT AND REFRACTIVE SURGERY DOI 10.1016/S0886-3350(01)01310-4
56	4	0.999	1997	light emitting diode (NaN, 1.0); coherence (NaN, 1.0); regeneration (NaN, 1.0); sub-basal nerves (NaN, 1.0); microneuroma (NaN, 1.0)	M, BUSIN (2001.0) Effect of hinged lamellar keratotomy on postkeratoplasty eyes. OPTHALMOLOGY DOI 10.1016/S0161-6420(01)00702-3

Supplementary Table 2. Burstness analysis for countries, institutions, authors, references and keywords (1990-2022 and 2017-2022)

A. Top 12 countries with the strongest beginning year of citation bursts (1990-2022)

Country	Year	Strength	Begin	End
SCOTLAND	1990	3.56	1993	1999
SWEDEN	1990	3.71	1998	2002
FINLAND	1990	4.64	1999	2005
NETHERLANDS	1990	7.99	2002	2007
AUSTRIA	1990	6.53	2003	2006
ENGLAND	1990	3.66	2005	2006
JAPAN	1990	5.76	2008	2009
BRAZIL	1990	4.51	2009	2013
INDIA	1990	11.04	2017	2022
IRAN	1990	6.89	2017	2019
SAUDI ARABIA	1990	4.71	2018	2020
PAKISTAN	1990	4.08	2018	2022

B. Top 12 countries with the strongest strength of citation bursts (1990-2022)

Country	Year	Strength	Begin	End
INDIA	1990	11.64	2017	2022
NETHERLANDS	1990	7.99	2002	2007
IRAN	1990	6.89	2017	2019
AUSTRIA	1990	6.53	2003	2006
JAPAN	1990	5.76	2008	2009
SAUDI ARABIA	1990	4.71	2018	2020
FINLAND	1990	4.64	1999	2005
BRAZIL	1990	4.51	2009	2013
PAKISTAN	1990	4.08	2018	2022
SWEDEN	1990	3.71	1998	2002
ENGLAND	1990	3.66	2005	2006
SCOTLAND	1990	3.56	1993	1999

C. Top 25 institutions with the strongest beginning year of citation bursts (1990-2022)

Institution	Year	Strength	Begin	End
Univ Vienna	1990	14.42	1998	2002
Harvard Univ	1990	5.52	1998	2003
Univ Texas	1990	8.92	1999	2007
Univ Helsinki	1990	3.66	2002	2007
Rotterdam Eye Hosp	1990	4.18	2002	2007
St Thomas Hosp	1990	6.43	2003	2006
Med Univ Vienna	1990	9.27	2005	2011
Univ Munich	1990	5.16	2005	2014
Univ Bonn	1990	5.1	2008	2016
Univ Wisconsin	1990	5	2009	2014
Johns Hopkins Univ	1990	7.22	2010	2015
Univ So Calif	1990	6.85	2010	2015
Retina Vitreous Associates Med Grp	1990	5.12	2012	2016
Univ Michigan	1990	4.44	2012	2014
Univ Milan	1990	4.27	2012	2018
UCL	1990	4.64	2014	2020
Gaumnach Inst	1990	4.61	2014	2020
Harvard Med Sch	1990	9.48	2016	2022
Aravind Eye Hosp	1990	5.13	2016	2022
Univ Tehran Med Sci	1990	5.9	2017	2019
Univ Toronto	1990	5.44	2018	2020
Univ Washington	1990	4.62	2018	2022
Moorfields Eye Hosp NHS Fdn Trust	1990	6.4	2019	2022
LV Prasad Eye Inst	1990	4.92	2020	2022
Duke NUS Med Sch	1990	4.2	2020	2022

D. Top 25 institutions with the strongest strength of citation bursts (1990-2022)

Institution	Year	Strength	Begin	End
Univ Vienna	1990	14.42	1998	2002
Harvard Med Sch	1990	9.48	2016	2022
Med Univ Vienna	1990	9.27	2005	2011
Univ Texas	1990	8.92	1999	2007
Johns Hopkins Univ	1990	7.22	2010	2015
Univ So Calif	1990	6.85	2010	2015
St Thomas Hosp	1990	6.43	2003	2006
Moorfields Eye Hosp NHS Fdn Trust	1990	6.4	2019	2022
Univ Tehran Med Sci	1990	5.9	2017	2019
Univ Helsinki	1990	5.66	2002	2007
Harvard Univ	1990	5.52	1998	2003
Univ Toronto	1990	5.44	2018	2020
Univ Munich	1990	5.16	2005	2014
Aravind Eye Hosp	1990	5.13	2016	2022
Retina Vitreous Associates Med Grp	1990	5.12	2012	2016
Univ Bonn	1990	5.1	2008	2016
Univ Wisconsin	1990	5	2009	2014
LV Prasad Eye Inst	1990	4.92	2020	2022
UCL	1990	4.64	2014	2020
Univ Washington	1990	4.62	2018	2022
Gaumnach Inst	1990	4.61	2014	2020
Univ Michigan	1990	4.44	2012	2014
Univ Milan	1990	4.27	2012	2018
Duke NUS Med Sch	1990	4.2	2020	2022
Rotterdam Eye Hosp	1990	4.18	2002	2007

E. Top 25 journals with the strongest beginning year of citation bursts (1990-2022)

Cited Journals	Year	Strength	Begin	End
OPHTHALMIC SURG LAS	1990	58.65	1992	2004
KLIN MONATSBL AUGENH	1990	14.55	1992	2005
REFRACT CORNEAL SURG	1990	31.18	1995	2006
J REFRACT CORNEAL S	1990	36.63	1995	2006
GER J OPTHALMOL	1990	17.53	1995	2006
AUST NZ J OPTHALMOL	1990	16.05	1996	2007
J CATARACT REFR SURG	1990	46.37	1998	2006
ARCH OPTHALMOL CHC	1990	16.36	1998	2007
J REFRACT SURG	1990	33.69	1999	2006
OPHTHALMOLOGE	1990	16.16	2003	2007
PLOS ONE	1990	43.58	2015	2022
JAMA OPTHALMOL	1990	56.1	2016	2022
OSU RETINA	1990	22.15	2016	2022
COCHRANE DB SYST REV	1990	14.45	2016	2022
CLIN OPTHALMOL	1990	49.54	2017	2022
SCI REP UK	1990	39.93	2017	2022
J OPTHALMOL	1990	36.76	2017	2022
ASIA-PAC J OPTHALMO	1990	18.47	2017	2022
INDIAN J OPTHALMOL	1990	18.17	2017	2022
TRANS VIS SCI TECH	1990	17.07	2017	2022
INT J OPTHALMOL CH	1990	29.47	2018	2022
MEDICINE	1990	17.26	2018	2022
EYE VISION	1990	15.45	2018	2022
BMC OPTHALMOL	1990	33.93	2019	2022
OPHTHALMOL RETINA	1990	26.99	2019	2022

F. Top 25 journals with the strongest strength of citation bursts (1990-2022)

Cited Journals	Year	Strength	Begin	End
OPHTHALMIC SURG LAS	1990	58.65	1992	2004
JAMA OPTHALMOL	1990	56.1	2016	2022
REFRACT CORNEAL SURG	1990	31.18	1995	2006
CLIN OPTHALMOL	1990	49.54	2017	2022
J CATARACT REFR SURG	1990	46.37	1998	2006
PLOS ONE	1990	43.58	2015	2022
SCI REP UK	1990	39.93	2017	2022
J OPTHALMOL	1990	36.76	2017	2022
J REFRACT CORNEAL S	1990	36.63	1995	2006
BMC OPTHALMOL	1990	33.93	2019	2022
J REFRACT SURG	1990	33.69	1999	2006
INT J OPTHALMOL CH	1990	29.47	2018	2022
OPHTHALMOL RETINA	1990	26.99	2019	2022
OSU RETINA	1990	22.15	2016	2022
ASIA-PAC J OPTHALMO	1990	18.47	2017	2022
INDIAN J OPTHALMOL	1990	18.17	2017	2022
GER J OPTHALMOL	1990	17.53	1995	2006
MEDICINE	1990	17.26	2018	2022
TRANS VIS SCI TECH	1990	17.07	2017	2022
ARCH OPTHALMOL CHC	1990	16.36	1998	2007
OPHTHALMOLOGE	1990	16.16	2003	2007
AUST NZ J OPTHALMOL	1990	16.05	1996	2007
EYE VISION	1990	15.45	2018	2022
KLIN MONATSBL AUGENH	1990	14.55	1992	2005
COCHRANE DB SYST REV	1990	14.45	2016	2022

G. Top 25 journals with the strongest beginning year of citation bursts (2017-2022)

Cited Journals	Year	Strength	Begin	End
OPHTHALMIC SURG LAS	2017	4.64	2017	2019
J CELL BIOL	2017	3.03	2017	2018
NAT REV DRUG DISCOV	2017	2.65	2017	2018
HUM MOL GENET	2017	2.27	2017	2018
RETINA	2017	2.26	2017	2018
INDIAN JOURNAL OF OPTHALMOLOGY	2017	2.09	2017	2018
DEVELOPMENT	2017	2.77	2018	2019
TAM OPTHAL SOC	2017	2.64	2018	2019
PROG BRAIN RES	2017	2.64	2018	2019
J COMP NEUROL	2017	2.64	2018	2019
J HISTOCHEM CYTOCHEM	2017	2.27	2018	2019
LARYNGOSCOPE	2017	2.27	2018	2019
ZHONGHUA YAN KE ZA ZHI	2017	3.24	2019	2020
ORBIT	2017	2.59	2019	2020
MED IMAGE ANAL	2017	2.59	2019	2020
J NEURO-OPTHALMOL	2017	2.27	2019	2020
RETIN CASES BRIEF REP	2017	3.23	2020	2022
STAT MED	2017	2.36	2020	2022
LIGHT SCI APPL	2017	2.36	2020	2022
JOVE J VIS EXP	2017	2.36	2020	2022
PHYS REV LETT	2017	2.36	2020	2022
SENSORS-BASEL	2017	2.36	2020	2022
APPL PHYS B-LASERS O	2017	2.15	2020	2022
METHODS MOL BIOL	2017	2.06	2020	2022
J OPT SOC AM B	2017	2.06	2020	2022

H. Top 25 journals with the strongest strength of citation bursts (2017-2022)

Cited Journals	Year	Strength	Begin	End
OPHTHALMIC SURG LAS	2017	4.64	2017	2019
ZHONGHUA YAN KE ZA ZHI	2017	3.24	2019	2020
RETIN CASES BRIEF REP	2017	3.23	2020	2022
J CELL BIOL	2017	3.03	2017	2018
DEVELOPMENT	2017	2.77	2018	2019
NAT REV DRUG DISCOV	2017	2.65	2017	2018
TAM OPTHAL SOC	2017	2.64	2018	2019
PROG BRAIN RES	2017	2.64	2018	2019
J COMP NEUROL	2017	2.64	2018	2019
ORBIT	2017	2.59	2019	2020
MED IMAGE ANAL	2017	2.59	2019	2020
LIGHT SCI APPL	2017	2.36	2020	2022
JOVE J VIS EXP	2017	2.36	2020	2022
PHYS REV LETT	2017	2.36	2020	2022
SENSORS-BASEL	2017	2.36	2020	2022
HUM MOL GENET	2017	2.27	2017	2018
J NEURO-OPTHALMOL	2017	2.27	2019	2020
J HISTOCHEM CYTOCHEM	2017	2.27	2018	2019
LARYNGOSCOPE	2017	2.27	2018	2019
RETINA	2017	2.26	2017	2019
APPL PHYS B-LASERS O	2017	2.15	2020	2022
INDIAN JOURNAL OF OPTHALMOLOGY	2017	2.09	2017	2018
METHODS MOL BIOL	2017	2.06	2020	2022
J OPT SOC AM B	2017	2.06	2020	2022

I. Top 20 co-authors with the strongest beginning year of citation bursts (1990-2022)

Authors	Year	Strength	Begin	End
JL ALLO	1990	4.73	1997	2005
O FINDL	1990	6.21	1998	2005
A KRUGER	1990	4.24	1998	2002
M MROCHEN	1990	4.19	2001	2002
T SEILER	1990	4.19	2001	2002
J MARSHALL	1990	4.42	2003	2005
R MENAPACE	1990	3.59	2003	2005
W BUEHL	1990	4.19	2004	2005
RUPERT MENAPACE	1990	4.22	2007	2009
FRANK G HOLZ	1990	6.03	2008	2016
ROBERT VITTI	1990	4.26	2009	2016
PETER A CAMPOCHIARO	1990	4.69	2010	2016
URSULA SCHMIDT-ERFURTH	1990	4.58	2010	2014
DAVID M BROWN	1990	6.06	2011	2018
MINGGIANG HE	1990	4.68	2012	2014
TIN AUNG	1990	4.01	2012	2022
DAVID S BOYER	1990	5.31	2014	2018
THOMAS KOHNEN	1990	4.13	2014	2020
ROBERT VITTI	1990	4.25	2015	2018
ALYSON J BERLINER	1990	3.72	2015	2018

J. Top 20 co-authors with the strongest strength of citation bursts (1990-2022)

Authors	Year	Strength	Begin	End
O FINDL	1990	6.21	1998	2005
DAVID M BROWN	1990	6.06	2011	2018
FRANK G HOLZ	1990	6.03	2008	2016
DAVID S BOYER	1990	5.31	2014	2018
ROBERT VITTI	1990	4.76	2009	2016
JL ALLO	1990	4.73	1997	2005
PETER A CAMPOCHIARO	1990	4.69	2010	2016
MINGGIANG HE	1990	4.68	2012	2014
URSULA SCHMIDT-ERFURTH	1990	4.58	2010	2014
J MARSHALL	1990	4.42	2003	2005
ROBERT VITTI	1990	4.25	2015	2018
A KRUGER	1990	4.24	1998	2002
RUPERT MENAPACE	1990	4.22	2007	2009
M MROCHEN	1990	4.19	2001	2002
T SEILER	1990	4.19	2001	2002
W BUEHL	1990	4.19	2004	2005
THOMAS KOHNEN	1990	4.13	2014	2

Supplementary Table 3. The top countries and institutions (1990-2022 and 2017-2022 period).

1990-2022 period							
Countries ranked by centrality	Betweenness centrality	Countries ranked by citation counts	Total number of citations	Institutions ranked by centrality	Betweenness centrality	Institutions ranked by citation counts	Total number of citations
USA	0.6	USA	1039	Johns Hopkins Univ	0.09	Johns Hopkins Univ	83
GERMANY	0.19	GERMANY	335	Harvard Univ	0.05	Harvard Univ	56
ITALY	0.15	ENGLAND	242	Moorfields Eye Hosp	0.04	Med Univ Vienna	44
ENGLAND	0.14	PEOPLES R CHINA	163	Univ Melbourne	0.04	Singapore Natl Eye Ctr	44
FRANCE	0.12	JAPAN	144	Med Univ Vienna	0.03	Moorfields Eye Hosp	43
AUSTRALIA	0.09	ITALY	138	Harvard Med Sch	0.03	Stanford Univ	35
SPAIN	0.08	FRANCE	128	Singapore Natl Eye Ctr	0.03	Univ Miami	33
AUSTRIA	0.07	AUSTRIA	123	Univ Calif Los Angeles	0.03	Univ Calif Los Angeles	30
ISRAEL	0.07	AUSTRALIA	109	Stanford Univ	0.03	Univ Calif San Diego	30
SWITZERLAND	0.06	SPAIN	105	Univ Milan	0.02	Harvard Med Sch	29
2017-2022 period							
Countries ranked by centrality	Betweenness centrality	Countries ranked by citation counts	Total number of citations	Institutions ranked by centrality	Betweenness centrality	Institutions ranked by citation counts	Total number of citations
USA	0.53	USA	299	Harvard Med Sch	0.21	Harvard Med Sch	27
ENGLAND	0.14	GERMANY	101	Moorfields Eye Hosp	0.13	Johns Hopkins Univ	24
ITALY	0.13	PEOPLES R CHINA	80	Univ Melbourne	0.11	Singapore Natl Eye Ctr	22
GERMANY	0.12	ENGLAND	79	Singapore Natl Eye Ctr	0.1	Moorfields Eye Hosp	15
AUSTRALIA	0.12	INDIA	60	Cleveland Clin	0.1	Moorfields Eye Hosp NHS Fdn Trust	14
FRANCE	0.12	AUSTRALIA	47	Univ Illinois	0.09	Stanford Univ	14
SWITZERLAND	0.11	ITALY	47	Univ Milan	0.09	UCL	14
SINGAPORE	0.1	FRANCE	43	Univ Sydney	0.07	Singapore Eye Res Inst	14
INDIA	0.09	SWITZERLAND	37	Univ Calif Los Angeles	0.07	Univ Illinois	13
BRAZIL	0.07	CANADA	31	Retina Consultants Houston	0.06	Univ Sydney	13

Supplementary Table 4. Summary of the largest clusters identified for the author co-citation network (2017-2022) obtained with CiteSpace.

Cluster ID	Size	Silhouette score	Mean (Year)	Top five extracted terms based on keywords (Log-likelihood ratio algorithm; p-level)
0	80	0.939	2018	diabetic macular edema (48.7, 1.0E-4); diabetic retinopathy (25.4, 1.0E-4); anti-vegf (14.98, 0.001); age-related macular degeneration (8.96, 0.005); intravitreal injection (8.96, 0.005)
1	67	0.877	2018	dry eye disease (25.32, 1.0E-4); meibomian gland dysfunction (22.61, 1.0E-4); in vivo confocal microscopy (11.14, 0.001); intense pulsed light (9.63, 0.005); diabetic retinopathy (7.27, 0.01)
2	46	0.877	2018	refractive surgery (18.19, 1.0E-4); smile (14.49, 0.001); prk (10.85, 0.001); lasik (10.46, 0.005); small incision lenticule extraction (7.22, 0.01)
3	44	0.965	2018	cyclophotocoagulation (15.62, 1.0E-4); refractory glaucoma (15.62, 1.0E-4); glaucoma (11.91, 0.001); laser trabeculectomy (10.38, 0.005); selective laser trabeculectomy (10.38, 0.005)
4	33	0.966	2019	phacoemulsification (21.27, 1.0E-4); femtosecond laser (8.18, 0.005); cataract surgery (6.49, 0.05); femtosecond laser-assisted cataract surgery (4.89, 0.05); capsulotomy (4.22, 0.05)
5	32	0.988	2018	retinopathy of prematurity (36.23, 1.0E-4); retina (8.11, 0.005); anterior segment (5.89, 0.05); hyperoxia/hypoxia (5.89, 0.05); eye refractive (5.89, 0.05)
6	31	0.919	2018	glaucoma (9.51, 0.005); angle closure (9.33, 0.005); gonioscopy (9.33, 0.005); uveitis (9.33, 0.005); laser peripheral iridotomy (9.33, 0.005)
7	9	0.932	2020	ophthalmic imaging (7.08, 0.01); optical coherence tomography (7.08, 0.01); screening (4.37, 0.05); non-linear optical microscopy (4.37, 0.05); functional oct (4.37, 0.05)
8	4	1	2017	issue 138 (7.16, 0.01); retinal neovascularization (7.16, 0.01); pam (7.16, 0.01); photoacoustic microscopy (7.16, 0.01); multimodal imaging (7.16, 0.01)

Supplementary Table 5. Average citations and total link strength of authors per cluster based on bibliographic coupling analysis (Countries) .

Countries	Cluster	Total Link Strength	Avg. citations
argentina	3	2335	37.2857
aruba	1	138	36
australia	1	45759	62.6126
austria	2	39919	80.2619
belarus	2	963	5.2857
belgium	2	6077	30.5
bosnia & herceg	2	177	39
brazil	1	23182	50.5763
bulgaria	3	288	13.25
burkina faso	1	10	15
cameroon	1	72	15
canada	1	20360	58.0814
chile	1	5936	131.5
colombia	3	144	17.6667
costa rica	1	144	5
cote ivoire	2	570	6
croatia	1	481	5.3333
cyprus	3	101	0
czech republic	3	2735	23.4
dem rep congo	2	58	1
denmark	1	9844	53.28
egypt	1	5288	20.6897
england	1	74318	43.7317
estonia	2	291	35
finji	1	97	15
finland	3	5553	58.4783
france	2	41470	77.3692
germany	2	82113	47.8791
ghana	1	75	0
greece	3	12892	25.6842
guatemala	1	505	162
hungary	3	5312	38.381
iceland	1	2030	75
india	1	28480	30.3111
iran	1	6278	11.4
ireland	3	3614	40.6154
israel	1	9342	25.5476
italy	3	42979	53.9583
japan	1	40809	52.9931
kazakhstan	5	0	0
kenya	1	152	18
kuwait	3	48	2
latvia	4	60	0
lebanon	3	1274	12
lithuania	4	819	1.3333
malawi	1	1511	20.5
malaysia	1	1252	13.5
mexico	1	6555	45.6667
mongolia	1	144	5
morocco	2	30	2
nepal	1	1456	11.625
netherlands	2	17935	72
new zealand	1	3580	28.3846
nigeria	1	1829	12.3333
north ireland	2	10600	44.6429
norway	1	2178	55.875
oman	3	255	129
pakistan	1	4356	3.6061
peoples r china	1	36218	25.716
peru	1	56	11
philippines	1	512	28.4
poland	2	5024	8.6364
portugal	2	8795	30.4545
romania	3	259	12.2
ruusia	2	3980	8.48
rwanda	1	2073	128.5
saudi arabia	1	3673	19.8276
scotland	3	11623	67.2381
serbia	2	970	11.75
singapore	1	33861	58.2192
slovenia	2	234	12.6
south africa	3	1781	63.6667
south korea	1	16575	42
spain	3	29885	59.1869
sweden	1	7052	85.9231
switzerland	2	31217	81.6517
taiwan	1	12866	22.8837
tanzania	1	319	16.5
thailand	1	5134	38.1538
tunisia	2	92	0
turkey	3	10127	20
u arab emirates	1	3059	40.1111
ukraine	1	793	74
usa	1	196396	50.6796
ussr	2	3	5
venezuela	1	1397	59
vietnam	1	434	4
wales	1	5662	16.2308
yemen	1	221	3

Supplementary Table 5. Average citations and total link strength of authors per cluster based on bibliographic coupling analysis (Institutions) .

Institutions	Cluster	Total Link Strength	Avg. citations
aarhus univ hosp	2	5352	103.6
aberdeen royal infirm	7	1114	18
acad hosp maastricht	1	1112	36
ain shams univ	1	124	7.75
albany med coll	1	1232	39.8333
all india inst med sci	1	2641	10.7273
allergan pharmaceut inc	2	3315	222.5
amer acad ophthalmol	4	973	30.2
amer univ beirut	4	1201	10.25
aravind eye hosp	3	4433	12.2857
aristotle univ thessaloniki	4	9277	29.8333
armed forces inst ophthalmol	1	593	4.2
assoc innovat & biomed res light & image	2	4073	30.5
aston univ	6	11057	42.4
bascom palmer eye inst	1	4494	111.9
bausch & lomb inc	1	1898	50.1429
bayer healthcare	2	12491	170.625
baylor coll med	1	9794	41.1538
belfast hlth & social care trust	5	2107	23.8333
ben gurion univ negev	1	2338	28.8571
boston univ	1	2317	5.4
bristol eye hosp	2	4658	64.625
cairo univ	1	232	10.1667
calif retina consultants	2	5502	20
capital med univ	1	1971	27.6667
cardiff univ	3	5134	14.4444
case western reserve univ	3	3346	27.5714
catholic univ korea	2	5153	42
catholic univ louvain	1	495	19.5
chang gung mem hosp	3	6275	26.1111
chang gung univ	3	6142	23.25
charlotte eye ear nose & throat associates	2	1192	91.6
cheltenham gen hosp	5	3046	149.2
childrens hosp philadelphia	1	1355	19.8
chinese acad sci	3	1478	20.5
chinese univ hong kong	1	8851	53.0833
chu bordeaux	2	8233	153.7143
cincinnati eye inst	3	1045	123
cleveland clin	6	21215	29.8125
cleveland clin fdn	1	933	49.8571
cnr	4	47	14
columbia univ	1	5020	35.7059
cornea & laser eye inst	1	889	19.25
ctr sight	3	1679	15.5
dalhousie univ	1	2534	65.0909
doheny eye inst	5	6456	21.2
duke nus grad med sch	3	2493	40.5
duke nus med sch	3	9656	11.4
duke univ	6	21994	79.9643
emory univ	1	9109	56.8571
erasmus mc	2	2897	38.2
flinders med ctr	1	2553	71.4
flinders univ s australia	1	4129	52
fu jen catholic univ	2	4263	6.25
fudan univ	1	3131	24.8333
gazi univ	1	631	12.4
genentech inc	2	15866	119
gloucestershire hosp nhs fdn trust	2	3040	16
goethe univ	1	1800	10.5556
goethe univ frankfurt	1	3989	27.5556
hackensack univ	1	892	45.5
hadassah univ hosp	1	611	21.4
hanusch hosp	2	4871	15.75
harbin med univ	3	1255	25
harvard med sch	3	18373	32.6129
harvard univ	1	20552	83.1379
hebrew univ jerusalem	2	1532	17.8333
heidelberg univ	1	1816	49.5714
helsinki univ hosp	1	428	7.25
hong kong eye hosp	1	1425	29
houston methodist hosp	2	6878	18.4286
icahn sch med mt sinai	3	1543	11.5
indiana univ	4	1502	48.6667
indiana univ sch med	2	2438	32
inje univ	1	1299	65.6667
inserm	2	8347	82.1176
inst ophthalmol	3	1815	71.2857
iran univ med sci	1	1150	7.7143
irces	4	880	58.4
istanbul univ	3	951	30
jaeb ctr hlth res	2	7653	147.5833
johannes gutenberg univ mainz	4	3053	56.1429
john radcliffe hosp	2	818	52.25
johns hopkins bloomberg sch publ hlth	3	3669	50.1429
johns hopkins sch med	2	4225	128.1429
johns hopkins univ	2	41268	81.7791
johns hopkins univ hosp	1	3003	38.5
joslin diabet ctr	2	9800	74.1111
jules stein eye inst	1	429	24
juntendo univ	3	1110	24.25
kanazawa univ	3	513	28.3333
kaohsiung med univ	2	2822	9.6
keio univ	6	12476	43.1905
king khalid eye specialist hosp	4	680	10.4444
king saud univ	1	1283	39.875
kings coll london	3	5031	35.6364
kitasato univ	1	1918	32.3333
kobe univ	1	565	45.5
korea univ	2	2644	13.8
kymenlaakso cent hosp	1	552	7.75
kyoto univ	1	1360	49.75
landeskrankenhaus feldkirch	2	7304	1.5
leiden univ	2	2782	43.25
lithuanian univ hlth sci	3	807	1.3333
london sch hyg & trop med	3	6195	46.2667
london vis clin	1	1037	14
louisiana state univ	1	1683	43.2727

ludwig maximilians univ munchen	4	2374	22.4
lv prasad eye inst	6	10970	40.5
mahidol univ	3	1028	36.4
manchester royal eye hosp	2	921	20
manhattan eye ear & throat hosp	5	724	30.4
marsden eye res	5	1928	33.75
masaryk univ hosp	1	1083	39.5
mashhad univ med sci	1	855	4
massachusetts eye & ear	1	443	0.5
massachusetts eye & ear infirm	1	469	32.6
massachusetts gen hosp	1	940	30.6
mayo clin	2	13407	49.8889
mcgill univ	4	1301	34.4286
mcmaster univ	4	2912	33.6667
med coll wisconsin	2	2927	40.375
med univ graz	6	15549	34.625
med univ innsbruck	2	7503	5
med univ lubeck	5	894	105.75
med univ s carolina	1	1359	118.8333
med univ vienna	2	22196	84.8776
med univ wien	2	6002	56.75
methodist hosp	2	4890	143.3333
michigan state univ	1	1136	7.8333
midwest eye inst	2	5642	219.5714
miguel hernandez univ	1	1029	44.6667
mit	1	3883	204.3846
mivata eye hosp	1	988	76.75
montefiore med ctr	1	519	3.8
moorfields eye hosp	3	26087	35
moorfields eye hosp nhs fdn trust	3	12555	48.6923
nagova univ hosp	2	6956	258
nanvang technol univ	3	6394	17.4286
natl cheng kung univ hosp	1	1108	17.4
natl taiwan univ	2	3785	13.6667
natl taiwan univ hosp	1	4586	20
natl univ hlth syst	3	3782	92.8571
natl univ singapore	3	18546	62.4474
natl yang ming univ	2	4010	8.8333
nei	5	12139	145.2632
new york eye & ear infirm	1	4589	61.6429
new york med coll	1	1550	47.25
newcastle univ	2	2679	5.8
noor eye hosp	1	963	6
northwestern univ	2	4541	52.875
novartis pharma ag	2	7542	179.25
nvu	1	2594	30.8333
oakland univ	1	1227	27.4
odense univ hosp	1	2340	54.2857
ohio state univ	1	3210	85.2
ophthalm consultants boston	2	11215	154
oregon hlth & sci univ	1	10678	64.8
osaka univ	1	1810	118.75
palmetto retina ctr	2	3640	186.5
paracelsus med univ salzburg	4	503	36.8333
peking univ	2	3904	28.875
penn state coll med	1	1222	23.3333
pfizer inc	5	2968	157.5
postgrad inst med educ & res	2	2098	66.75
prince wales hosp	3	229	14.5
pusan natl univ	1	512	14.25
queens univ	4	3487	13.9091
queens univ belfast	5	9073	64.9
quinze vingts natl ophthalmol hosp	6	2959	71.75
rambam hlth care campus	1	1252	7.25
regeneron pharmaceut inc	2	17927	133.6923
res inst ophthalmol	1	711	49.4
retina associates new jersey	2	4232	410
retina consultants houston	2	16663	215.8462
retina consultants ltd	6	724	11.75
retina inst	4	283	6.5
retina vitreous associates med grp	2	22004	275.5
rhein westfal th aachen	3	2518	17.5
rotterdam eye hosp	1	2355	46.9231
royal liverpool univ hosp	2	6437	32.4
royal perth hosp	5	2992	30.625
royal victoria hosp	2	3763	16.2
royal victoria infirm	2	661	31
royal victorian eye & ear hosp	5	6951	73.4615
ruhr univ bochum	1	649	14.5
rush univ	1	908	20.5
russian acad sci	1	1091	10.7273
saarland univ	6	1191	4.6667
sahlgrens univ hosp	1	603	25.75
sankara nethralaya	3	3545	14.4444
sanno hosp	1	1216	34.4
schepens eye res inst	1	1000	63
semmelweis univ	4	4504	49.2667
seoul natl univ	2	2636	11.5714
shahid beheshti univ med sci	1	1085	6.1111
shanghai jiao tong univ	1	4342	44.2
singapore eye res inst	3	13050	42.8966
singapore natl eye ctr	3	32715	57.2917
sorbonne univ	1	368	6
southeast retina ctr	2	8651	388
st louis univ	2	2392	29.1429
st thomas hosp	1	4847	36.7619
stanford univ	1	15663	31.4565
sun yat sen univ	3	6362	23.5
sunderland eye infirm	2	2392	7.25
sungkyunkwan univ	2	2786	5.8333
taipei vet gen hosp	2	5760	24.8
tan tock seng hosp	3	4743	39.625
tasmanian eye inst	1	935	53.5
tech univ dresden	1	1139	39.8333
technion israel inst technol	1	800	10
tel aviv univ	2	5672	19.7727
texas retina associates	5	5622	102.25
texas tech univ	1	792	36.1667
thomas jefferson univ	2	9213	41.4375

thorlabs inc	1	1634	263
tianjin med univ	1	1086	48.6667
tilganga inst ophthalmol	1	916	14.5
tohoku univ	1	577	9.4286
tokyo dent coll	6	1026	41.3333
tokyo womens med univ	1	1153	58
topcon corp	1	938	48.5
tufts univ	3	15618	98.3077
tulane univ	1	735	42.2
ucl	3	14116	47.8
ucl inst ophthalmol	3	10802	28.1364
univ aberdeen	7	1537	35
univ alabama birmingham	5	5963	65.25
univ alberta	4	2735	21.4
univ alicante	1	2534	60.1
univ amsterdam	2	6260	181.2222
univ aquila	5	1960	24.5
univ arizona	1	2433	104.7
univ auckland	1	1208	39
univ autonoma barcelona	1	1378	124
univ bari	1	493	17
univ basel	3	3393	10.25
univ bern	5	5913	30.875
univ birmingham	1	462	29.75
univ bologna	1	575	8.5
univ bonn	2	17868	91.72
univ bordeaux	2	4837	48.8333
univ brescia	4	4427	20.5
univ british columbia	1	1197	55
univ calgary	4	1800	36
univ calif davis	1	4683	45.5385
univ calif irvine	2	8112	28.8696
univ calif los angeles	5	13103	43.325
univ calif san diego	1	9385	44.6579
univ calif san francisco	1	7590	44.3448
univ cambridge	3	1111	26.8
univ cattolica sacro cuore	1	1360	52.8
univ chicago	2	2255	76
univ cincinnati	3	2581	67.5556
univ coimbra	2	2544	12
univ cologne	3	6242	25.2857
univ colorado	4	4988	20.875
univ complutense	4	1846	29.75
univ copenhagen	2	5190	12.75
univ crete	1	2865	37
univ dundee	2	3445	22.375
univ erlangen nurnberg	1	4248	95.7143
univ essen gesamthsch	5	563	30.5
univ eye hosp	1	589	30.5
univ fed sao paulo	6	14230	81.6471
univ florida	1	3493	42.2857
univ frankfurt	1	1284	41.1667
univ freiburg	3	4076	15.2857
univ fukui	3	1325	39.25
univ g dannunzio	1	1418	18.4444
univ geneva	4	3191	49.1429
univ genoa	1	2084	64.5
univ ghent	5	260	14.75
univ heidelberg	1	1462	67.5
univ helsinki	1	4969	59.1905
univ hong kong	1	2360	23.1429
univ hosp	1	1804	34.4286
univ hosp cologne	3	4275	49.4
univ iceland	2	1919	75
univ illinois	6	16557	38.4167
univ ioannina	4	6017	15.5556
univ iowa	5	1539	141.5
univ iowa hosp & clin	2	201	14
univ kentucky	2	2624	151.6
univ lausanne	2	2965	48.1429
univ leipzig	2	2329	30
univ liverpool	2	3664	43.2857
univ ljubljana	1	96	12.6
univ lubeck	2	3258	7.6667
univ lyon	2	1590	21.4
univ mainz	1	605	36.25
univ manchester	2	2407	13.4
univ marburg	1	890	62.4
univ maryland	1	1620	72.3333
univ med & dent new jersey	1	1016	47.4
univ med ctr hamburg eppendorf	2	8582	149
univ med ctr schleswig holstein	2	1624	34
univ melbourne	5	18629	100.8065
univ messina	4	1401	25.25
univ miami	5	17296	45.6667
univ michigan	1	8738	40.3571
univ miguel hernandez	1	2617	26.2727
univ milan	4	16527	43.7273
univ minho	2	2032	5.25
univ minnesota	1	1503	35.4286
univ missouri	2	2212	28.6667
univ montreal	4	2707	22.5455
univ munich	1	2998	15.2
univ munster	2	1117	63.25
univ murcia	1	1270	18
univ nebraska med ctr	2	8595	67
univ new s wales	3	1074	13.6
univ new south wales	5	5583	30.4444
univ nottingham	3	3985	25.3333
univ nottingham hosp	2	1273	22.1667
univ oslo	1	1115	68
univ otago	2	1847	24.75
univ oviedo	4	1475	22.5
univ oxford	2	3569	24.0909
univ padua	2	7291	135.8
univ paris 06	3	2222	32.3
univ paris 07	5	3836	105.3333
univ paris est creteil	2	779	46.25
univ paris saclay	4	1407	19.5

univ penn	5	11645	53.3636
univ pittsburgh	1	3877	42.8235
univ porto	2	3841	3.8
univ regensburg	1	1597	37.5
univ rochester	1	3965	59.6667
univ rome	1	895	25.75
univ rostock	6	2552	61.4
univ saarland	1	200	7.75
univ sao paulo	1	4945	30.4
univ siena	1	547	14
univ so calif	1	9065	51.9655
univ southern calif	1	4278	15.6923
univ st andrews	3	1328	38.4
univ sydney	5	19231	125.4706
univ tehran med sci	1	3118	16.125
univ tennessee	1	608	6.5
univ texas	1	4267	31.88
univ texas hlth sci ctr houston	1	978	13
univ tokyo	1	3183	64.8571
univ toronto	4	9530	36.96
univ tsukuba	1	1900	51.8333
univ tubingen	3	4171	32.0909
univ udine	2	2131	71.25
univ ulsan	1	3839	84.8182
univ ulster	1	1488	64.5
univ utah	1	3305	31.8824
univ valencia	1	3637	27.5
univ versailles st quentin en yvelines	1	1867	6
univ vienna	1	4954	116.9032
univ vita salute	2	3618	401
univ vita salute san raffaele	2	372	35.25
univ warmia & mazury	5	1351	7
univ washington	1	5519	38
univ western australia	5	6719	87.3636
univ western ontario	4	2423	11.5
univ wisconsin	5	13722	72.9545
univ zaragoza	1	637	21.75
univ zurich	1	3026	108.9333
us fda	1	425	36.25
usn	1	1378	54.25
vanderbilt univ	1	8493	32
vissum inst oftalmol alicante	1	941	24.25
vitreous retina macula consultants new york	2	9135	160
vivantes klinikum neukolln	1	939	58.5
vrije univ amsterdam	2	2477	36.5
washington univ	6	10684	52.6429
wayne state univ	1	1035	38.4286
weill cornell med coll	2	5238	21.6667
wenzhou med univ	1	995	4.3333
william beaumont hosp	1	630	27.8
wills eye hosp & res inst	2	11569	83.5417
wilmer eye inst	3	2771	91.2
vale univ	2	3282	26.875
yamaguchi univ	1	487	40.8
yonsei univ	1	4732	47.15

Supplementary Table 5. Average citations and total link strength of authors per cluster based on bibliographic coupling analysis (Journals) .

Journals	Cluster	Total Link Strength	Avg. citations
acs applied bio materials	1	29	4
acs applied polymer materials	3	8	2
acs nano	2	52	16
acta clinica croatica	3	301	8
acta medica portuguesa	2	482	0
acta ophthalmologica	3	3092	15.6
acta ophthalmologica scandinavica	2	1853	35.5
acta paediatrica	2	45	13
acta physica polonica a	1	281	3
acta scientiae veterinariae	5	13	0
actas dermo-sifiliograficas	4	1	0
acupuncture in medicine	2	10	7
advanced healthcare materials	4	65	0
advanced materials	1	118	21.5
advanced optical technologies	1	886	0.3333
advances in anatomic pathology	1	16	30
advances in clinical and experimental medicine	2	267	3
advances in therapy	3	3090	17.7778
american family physician	3	554	37
american journal of health-system pharmacy	3	160	174
american journal of nephrology	2	201	17
american journal of occupational therapy	1	4	21
american journal of ophthalmology	3	5895	61.1111
american journal of perinatology	2	114	7
american journal of primatology	3	53	0
analyst	1	62	4
analytical methods	4	25	9
angiogenesis	2	134	53
annales chirurgiae et gynaecologiae	7	0	9
annales de dermatologie et de venerologie	8	0	3
annales de physique	1	31	0
annals academy of medicine singapore	2	66	24
annals of medicine	3	419	429
annals of medicine and surgery	3	33	0
annals of ophthalmology	9	0	7
annals of ophthalmology-glaucoma	1	20	0
annals of pharmacotherapy	2	194	6
annals of the new york academy of sciences	1	20	7
annual review of vision science, vol 2	1	712	6
applied optics	1	740	40.5
applied sciences-basel	4	223	1
applied surface science	1	237	10
archives of disease in childhood-fetal and neonatal edition	2	479	32.6667
archives of medical research	2	167	3
archives of ophthalmology	3	1623	199.7778
archivos argentinos de pediatria	10	0	2
arquivos brasileiros de oftalmologia	3	580	2.2222
artificial cells nanomedicine and biotechnology	4	3	35
asia-pacific journal of ophthalmology	3	397	12
augenheilkunde up2date	2	586	0
australian and new zealand journal of ophthalmology	2	68	21
australian and new zealand journal of public health	2	156	6
australian journal of primary health	2	65	2
aviation space and environmental medicine	1	25	2
berliner und munchener tierarztliche wochenschrift	1	51	0
bio-medical materials and engineering	1	25	28
biochemistry-moscow	4	83	7
biochimica et biophysica acta-molecular basis of disease	4	4	11
biomaterials	2	45	37
biomed research international	2	231	10.6667
biomedical engineering online	1	614	25
biomedical engineering-meditinskaya teknika	1	1	0
biomedical microdevices	11	0	39
biomedical optics express	1	2243	37.3333
biomedizinische technik	1	18	11
biomolecules	4	32	0
biophysical journal	1	43	587
bmc medicine	2	455	33
bmc ophthalmology	4	1485	7.4286
bmj case reports	2	134	0.0769
bmj open	3	306	10.8
bmj open diabetes research & care	2	89	0
bmj open ophthalmology	2	421	0
bmj paediatrics open	2	78	2
british journal of hospital medicine	2	178	0
british journal of ophthalmology	3	3468	33.5
bulletin de l academie veterinaire de france	5	49	0
bulletin of experimental biology and medicine	2	13	1
bulletin of the world health organization	2	22	11
canadian family physician	12	0	0
canadian journal of diabetes	2	62	2
canadian journal of neurological sciences	13	0	0

canadian journal of ophthalmology-journal	3	528	10.1579
canadien d ophthalmologie			
case reports in infectious diseases	4	5	3
cataract	3	272	1
cataract surgery from routine to complex : a	3	481	0
practical guide			
cell death & disease	2	18	46
cell transplantation	2	44	56
chemicke listy	1	13	3
chinese journal of lasers-zhongguo jiguang	1	727	2.3333
chinese medical journal	1	4	0
chinese optics letters	1	1	3
clinica chimica acta	4	7	34
clinica terapeutica	2	102	8
clinica veterinaria de pequenos animales	5	22	0
clinical and experimental ophthalmology	2	2824	31.4706
clinical and experimental optometry	3	1064	13.6
clinical epidemiology	3	151	2
clinical interventions in aging	4	4	34
clinical ophthalmology	4	3216	3.32
clinical otolaryngology	3	39	23.5
clinical vision sciences	2	90	20
clinics in dermatology	3	12	42
clinics in geriatric medicine	2	301	0
cns & neurological disorders-drug targets	4	292	46
cochrane database of systematic reviews	3	267	8.2
collegium antropologicum	3	131	4
colloids and surfaces a-physicochemical and	4	80	2
engineering aspects			
colloids and surfaces b-biointerfaces	4	34	13
comparative medicine	1	108	3
compendium on continuing education for the	14	0	3
practicing veterinarian			
computers in biology and medicine	1	182	2
contact lens & anterior eye	4	1044	20.6667
cornea	4	2431	38
corneal regeneration: methods and protocols	4	8	1
cureus	4	246	1
cureus journal of medical science	3	47	0
current diabetes reports	2	302	1
current drug safety	2	925	0
current eye research	4	1465	26.6
current medical research and opinion	2	588	10
current molecular medicine	2	34	1
current neurovascular research	2	6	3
current ophthalmology reports	3	76	0
current opinion in allergy and clinical immunology	4	333	22
current opinion in neurology	3	14	7
current opinion in ophthalmology	4	2707	33.8889
current pharmaceutical biotechnology	2	224	42
dermatologic clinics	15	0	11
devices and methods of measurements	16	0	0
diabetes	2	408	41
diabetes & vascular disease research	2	87	23
diabetes care	2	424	56.3333
diabetes mellitus	2	500	0
diabetes research and clinical practice	2	99	42
diabetes retinopathy	2	104	0
diabetes-metabolism research and reviews	2	133	0
diabetic medicine	2	641	22.2857
diabetologia	2	242	26
diagnostics	4	275	13
dose-response	4	45	23
drug delivery	2	21	3
drug delivery and translational research	2	25	0
drugs	4	106	34
drugs & aging	3	65	50
early human development	2	290	9
endocrine	2	383	47
endocrinology and metabolism clinics of north	2	468	20
america			
endocrinology diabetes and metabolism case	17	0	0
reports			
engineering research express	1	21	1
equine veterinary journal	5	12	0
european archives of oto-rhino-laryngology	3	27	7
european journal of clinical microbiology &	2	12	5
infectious diseases			
european journal of medical research	3	259	7
european journal of ophthalmology	2	1596	9
european journal of pharmaceutical sciences	3	40	9
european journal of pharmaceuticals and	2	162	6
biopharmaceutics			
experimental and molecular medicine	2	22	0
experimental and therapeutic medicine	2	28	1.5
experimental eye research	4	780	8.1429
expert opinion on drug safety	3	254	43
expert review of clinical pharmacology	2	80	39

expert review of medical devices	1	1015	8.3333
expert review of ophthalmology	2	785	1.3333
eye	2	4314	17.1143
eye & contact lens-science and clinical practice	4	1869	20
eye and vision	3	264	15.6
folia morphologica	3	6	3
free radical biology and medicine	4	30	136
fresenius environmental bulletin	18	0	2
frontiers in medicine	3	476	2.2
frontiers in pharmacology	2	170	1
frontiers in surgery	2	10	13
frontiers of optoelectronics	6	4	2
gazette medicale de france	19	0	0
geriatrics-us	2	206	3
gland surgery	1	19	68
glaucoma surgery	5	100	3
glaucoma surgery, 2nd revised and extended edition	5	107	3
gomal journal of medical sciences	1	9	0
graeefes archive for clinical and experimental ophthalmology	4	1484	22.5789
hand clinics	1	1	4
handbook of solid-state lasers: materials, systems and applications	1	226	0
health informatics journal	2	2	0
health technology assessment	3	1035	9.3333
hematology-oncology clinics of north america	2	20	20
herald of the russian academy of sciences	20	0	0
high-power and femosecond lasers: properties, materials and applications	3	13	0
hormone and metabolic research	4	5	30
human molecular genetics	1	7	46
iee engineering in medicine and biology magazine	1	119	4
iee journal of biomedical and health informatics	1	42	36
iee journal of quantum electronics	1	32	6
iee journal of selected topics in quantum electronics	1	1058	37.4
iee photonics journal	1	103	5
iee transactions on biomedical engineering	1	254	9.5
iee transactions on information technology in biomedicine	1	28	53
iee transactions on medical imaging	1	330	84
iee transactions on plasma science	1	72	29
ium medical journal malaysia	3	32	0
image modeling of the human eye	3	432	3
impact of science on society	1	17	0
in vivo	4	165	12
indian journal of ophthalmology	4	1812	8.5714
indian journal of pediatrics	2	150	5
infants and young children	1	30	12
infrared imaging: a casebook in clinical medicine	1	3	0
infrared physics	1	103	0
interactive cardiovascular and thoracic surgery	4	3	7
international archives of allergy and immunology	4	4	5
international journal for vitamin and nutrition research	2	49	2
international journal of clinical and experimental medicine	3	15	0
international journal of fertility and womens medicine	3	112	1
international journal of hyperthermia	3	183	33
international journal of medical sciences	4	260	7.5
international journal of molecular sciences	4	607	2
international journal of multiphase flow	1	21	12
international journal of ophthalmology	4	688	10.7
international journal of oral and maxillofacial surgery	21	0	6
international journal of pharmaceuticals	22	0	284
international journal of retina and vitreous	2	72	9
international journal of thermal sciences	1	115	0
international medical case reports journal	4	65	3.5
international ophthalmology	3	847	6.6364
international ophthalmology clinics	23	0	7.5
investigative ophthalmology & visual science	4	3858	45.8649
iranian journal of ophthalmology	3	203	1
irbm	1	75	0.5
irish journal of medical science	2	7	0
iscience	1	33	27
izvestiya akademii nauk sssr seriya fizicheskaya	1	43	3.4
jama ophthalmology	2	1775	29.5556
jama-journal of the american medical association	2	928	143.25
japanese journal of applied physics	1	30	14
japanese journal of applied physics part 1-regular	24	0	1
papers short notes & japanese journal of ophthalmology	2	1026	10.8
jco global oncology	3	15	1
jcp-sp-journal of the college of physicians and surgeons pakistan	2	876	6.4615

johns hopkins apl technical digest	25	0	2
journal francais d ophthalmologie	3	2658	4.2857
journal of aapos	3	141	17.8
journal of advanced research	4	99	8
journal of allergy and clinical immunology	4	21	29
journal of alternative and complementary medicine	4	99	1
journal of analytical atomic spectrometry	6	7	7
journal of applied polymer science	4	1	13
journal of biochemistry	2	153	6
journal of biomedical optics	1	4842	39.1316
journal of biophotonics	1	484	19.1667
journal of cataract and refractive surgery	3	38553	32.413
journal of clinical and diagnostic research	2	55	10
journal of clinical endocrinology & metabolism	2	28	0
journal of clinical investigation	4	18	167
journal of clinical medicine	4	774	0.875
journal of controlled release	2	55	29
journal of current ophthalmology	3	1511	6.8
journal of dental research	4	15	79
journal of drug delivery science and technology	1	47	7.5
journal of emergency medicine	2	1	0
journal of equine veterinary science	5	11	0
journal of evolution of medical and dental sciences- jemds	2	500	0
journal of family medicine and primary care	2	30	3
journal of glaucoma	3	2818	19.6786
journal of hospital infection	1	5	15
journal of imaging	1	100	13
journal of korean medical science	2	510	6
journal of laser applications	1	2	1
journal of laser micro nanoengineering	1	124	2
journal of lasers in medical sciences	1	29	23
journal of mechanics in medicine and biology	1	10	15
journal of medical biography	3	4	0
journal of medical case reports	3	43	0
journal of medical engineering & technology	3	29	36
journal of medical imaging	3	101	0
journal of medical imaging and health informatics	4	1	1
journal of medical screening	2	202	5
journal of medical systems	1	83	11
journal of medicinal chemistry	2	678	20
journal of modern optics	1	211	7.6667
journal of nanomaterials	4	2	0
journal of neuro-ophthalmology	3	168	14.6667
journal of neuroscience methods	4	12	17
journal of nutritional biochemistry	2	125	39
journal of ocular pharmacology and therapeutics	2	426	17.6667
journal of ophthalmology	4	2491	8.7273
journal of optical technology	1	291	1
journal of optics	1	25	0
journal of optoelectronics and advanced materials	26	0	0
journal of pediatric ophthalmology & strabismus	1	221	7.3333
journal of pharmaceutical research international	2	378	0
journal of photochemistry and photobiology a- chemistry	1	6	22
journal of physics d-applied physics	1	213	7
journal of postgraduate medicine	2	310	47
journal of refractive surgery	3	1331	29.7143
journal of research in medical sciences	3	371	3
journal of telemedicine and telecare	3	27	36
journal of the american academy of dermatology	4	8	3
journal of the american animal hospital association	5	22	7
journal of the franklin institute-engineering and applied mathematics	27	0	0
journal of the korean ophthalmological society	4	284	0
journal of the mechanical behavior of biomedical materials	3	55	29
journal of the national medical association	3	140	6.5
journal of the optical society of korea	1	318	6.5
journal of the pakistan medical association	2	111	1.6667
journal of the royal society interface	1	5	19
journal of thermal biology	1	24	14
journal of toxicology-cutaneous and ocular toxicology	3	123	8
jove-journal of visualized experiments	1	239	5.6667
kaohsiung journal of medical sciences	2	117	4
khyber medical university journal-knuj	2	63	0
klinische monatsblatter fur augenheilkunde	3	1379	4.6522
kvantovaya elektronika	1	3	0
lab on a chip	2	147	0
lancet	2	958	280.2
lancet digital health	2	64	4
laser & optoelectronics progress	1	19	2
laser & photonics reviews	4	51	26
laser focus world	1	36	1
laser focus-electro-optics	28	0	4
laser physics	1	480	7.6
laser physics letters	1	83	10

laser treatment of vascular lesions	1	49	1
lasers for medical applications: diagnostics, therapy and surgery	1	250	2
lasers in engineering	3	2	0
lasers in medical science	1	393	8.7143
lasers in surgery and medicine	1	2063	21.5
life-basel	4	57	0
light-science & applications	1	59	16
liver international	1	10	28
m s-medecine sciences	1	212	7
macular edema: a practical approach	2	113	12
magyar allatorvosok lapja	5	3	0
major topics in type 1 diabetes	2	433	1
maternal and child health journal	2	74	10
matrix biology	4	9	46
medecine et armees	29	0	1
medical decision making	3	53	10
medical engineering & physics	2	23	5
medical journal of australia	2	232	8
medical science	2	194	1
medical science monitor	3	155	3.5
medicina clinica	1	108	0
medicina-lithuania	4	688	3.4286
medicine	2	455	7.6
medicine and health	4	1	0
medizinische klinik	2	140	3
medizinische welt	30	0	0
medycyna weterynaryjna-veterinary medicine- science and practice	5	11	0
micromachines	1	666	9
middle east african journal of ophthalmology	3	9	4
military medicine	3	88	1.3333
minerva biotecnologica	1	407	16
minimally invasive therapy & allied technologies	31	0	0
molecular genetics & genomic medicine	3	93	3
molecular vision	4	378	27.6667
munchener medizinische wochenschrift	32	0	0
nature photonics	1	107	150
neonatal network	33	0	0
nepalese journal of ophthalmology	2	143	4
nephron	3	1	6
neurology	4	1	25
neuroscience and biobehavioral reviews	1	54	29
new trends in basic and clinical research of glaucoma: a	3	85	27
new zealand medical journal	2	40	12
nigerian postgraduate medical journal	2	13	6
nobel medicus	3	25	0
nonlinear analysis-real world applications	3	12	6
nuclear technology & radiation protection	1	27	1
nursing clinics of north america	3	7	0
nutrients	4	108	7
occupational medicine-oxford	4	3	3
ocular fluid dynamics: anatomy, physiology, imaging techniques, and	1	84	3
ocular immunology and inflammation	4	381	1.5
ocular surface	4	4075	54.8182
oncology letters	1	3	50
open medicine	2	2	3
open ophthalmology journal	4	126	1.75
ophthalmic and physiological optics	2	185	11
ophthalmic epidemiology	2	552	5.5714
ophthalmic plastic and reconstructive surgery	4	5	32
ophthalmic research	4	603	8.4286
ophthalmic surgery and lasers	1	149	8
ophthalmic surgery lasers & imaging	3	248	10
ophthalmic surgery lasers & imaging retina	2	794	8.1667
ophthalmologe	3	2844	8.2667
ophthalmologica	2	1944	19.3529
ophthalmologie	3	304	0
ophthalmology	3	63781	72.9111
ophthalmology and therapy	2	675	8
ophthalmology glaucoma	3	2370	4.5714
ophthalmology retina	2	6885	7.4355
optica	1	26	20
optica acta	1	8	2
optical engineering	1	1354	40.0833
optical materials	4	49	2
optics and laser technology	1	118	15.6
optics and lasers in engineering	1	184	14
optics express	1	557	161.3333
optics letters	1	55	29.3333
optik	2	20	4
optometry and vision science	4	433	12.3333
oral oncology	1	10	1
orbit-an international journal on orbital disorders and facial	1	1	4
orvosi hetilap	3	77	5

otolaryngologic clinics of north america	3	9	5
otolaryngology-head and neck surgery	1	1	0
oxidative medicine and cellular longevity	2	313	66
pain physician	4	185	16
pakistan journal of medical & health sciences	1	28	0
pakistan journal of medical sciences	2	1013	2.3333
pathogens	34	0	2
patient preference and adherence	2	256	12
pattern recognition	1	5	36
pediatric neurology	3	4	11
periodicum biologorum	3	32	0
periostin	4	26	2
pferdeheilkunde	5	29	0.8
pharmacoeconomics	3	124	41
philosophical transactions of the royal society a-	1	16	38
mathematical physical	1	169	2
photoacoustic probes for in vivo imaging	1	102	0
photoacoustics	1	112	15.5
photobiomodulation photomedicine and laser	4	181	118.5
surgery	1	458	1
photochemical & photobiological sciences	1	3	18
photonics	1	0	0
photonics research	35	391	36
photonics spectra	1	64	40
physics in medicine and biology	1	18	4
physiological measurement	4	1696	17.6154
physiotherapy theory and practice	4	0	0
plos one	36	163	2
polymer international	1	155	0
polymers	2	317	14
postgraduate medicine	1	35	3
proceedings of the ieee	3	226	56.5
proceedings of the institution of mechanical	1	19	0
engineers part h-journal of	1	35	39
proceedings of the national academy of sciences of	1	4793	108.5556
the united states of	4	4	1
proceedings of the society of photo-optical	1	98	1
instrumentation engineers	1	148	7.5
progress in quantum electronics	3	49	0
progress in retinal and eye research	2	64	9
pteridines	1	710	801.5
quantitative imaging in medicine and surgery	3	1532	17.6471
quantum electronics	1	64	77
radiation effects and defects in solids	3	917	1.75
regional anesthesia and pain medicine	1	6	0
reports on progress in physics	3	5	0
retina-the journal of retinal and vitreous diseases	2	0	0
review of scientific instruments	37	0	0
revista brasileira de oftalmologia	38	0	0
revista de la universidad del zulia	1	273	1
revista orl	4	15	27
revue de medecine	2	19	0
revue de medecine de toulouse	2	56	1
revue de medecine interne	2	7	6
rsc advances	2	35	2
sage open medical case reports	2	85	0.6667
sage open medicine	3	146	3
salud i ciencia	39	0	22
saudi journal of medicine & medical sciences	3	75	0
saudi journal of ophthalmology	3	483	11.1667
saudi medical journal	2	2929	16.2727
scanning	40	0	14
science and engineering ethics	1	399	76
scientific reports	2	135	2
seminars in ophthalmology	2	5	8
seminars in veterinary medicine and surgery-small	1	64	83
animal	41	0	0
sensors	2	227	6
simulation	6	7	0
slas discovery	1	262	0.5
solid-state mid-infrared laser sources	3	6	0
south african journal of surgery	4	45	0
southern medical journal	3	9	22
spectroscopy and spectral analysis	3	91	36
spektrum der augenheilkunde	3	10	37
springer handbook of medical technology	1	49	1
stem cells - from hype to real hope	1	22	23
stroke	3	2764	73.65
surgeon-journal of the royal colleges of surgeons	3	4	15
of edinburgh and	3	448	2
surgical and radiologic anatomy	2	23	12
surgical clinics of north america	1	14	6
surgical neurology	3	14	6
survey of ophthalmology	3	14	6
swiss medical weekly	3	14	6
taiwan journal of ophthalmology	3	14	6
talanta	2	14	6
technology and health care	1	14	6

telemedicine journal	42	0	23
telemedicine journal and e-health	2	4	34
texas medicine	43	0	0
therapeutic advances in endocrinology and metabolism	2	154	31
therapeutic advances in ophthalmology	1	746	1.5
therapeutische umschau	44	0	0
tieraerztliche praxis ausgabe grosstiere nutztiere	5	1	0
tieraerztliche praxis ausgabe kleintiere heimtiere	5	44	1
tierarztliche praxis	5	24	3
transactions of the ophthalmological societies of the united kingdom	1	12	16
translational vision science & technology	2	474	1.8333
transplantation proceedings	4	33	7
trauma monthly	2	6	0
trials	3	375	14
turk pediatri arsivi-turkish archives of pediatrics	2	104	0
turkiye klinikleri tip bilimleri dergisi	3	48	0
ultrasonics sonochemistry	1	31	20
ultrasound in medicine and biology	1	120	62
unveiling diabetes - historical milestones in diabetology	2	550	0
urologe	45	0	4
vestnik oftalmologii	1	2	1
veterinaria	5	17	0
veterinary clinics of north america-small animal practice	5	170	13.5
veterinary ophthalmology	5	468	14.2222
vision research	2	24	57
vlaams diergeneeskundig tijdschrift	5	11	0
vojnosanitetski pregled	2	27	3
western journal of medicine	1	118	7
wiener klinische wochenschrift	2	2089	1.75
world journal of clinical cases	2	18	0
world neurosurgery	3	16	1
wound repair and regeneration	3	4	18
wounds-a compendium of clinical research and practice	1	14	3
zeitschrift fur medizinische physik	1	861	162

Supplementary Table 5. Average citations and total link strength of authors per cluster based on bibliographic coupling analysis (References) .

References	Cluster	DOI	Total Link Strength	Avg. citations
ohba (2007)	4	https://doi.org/10.1001/archophth.125.7.952	292	75
moisseiev (1995)	4	https://doi.org/10.1001/archophth.1995.01100020069031	42	79
mohamed (2007a)	2	https://doi.org/10.1001/jama.298.8.902	236	572
bressler (2013)	2	https://doi.org/10.1001/jamaophthalmol.2013.4154	98	76
avery (2016)	2	https://doi.org/10.1001/jamaophthalmol.2015.4070	128	130
gliem (2016)	4	https://doi.org/10.1001/jamaophthalmol.2016.1475	64	78
krauss (1995)	3	https://doi.org/10.1002/lsm.1900170203	489	70
looker (2013)	2	https://doi.org/10.1007/s00125-013-2928-7	39	50
mierdel (1997)	1	https://doi.org/10.1007/s003470050140	10	62
lege (2004)	3	https://doi.org/10.1007/s00417-003-0672-2	30	58
grueb (2006)	5	https://doi.org/10.1007/s00417-006-0280-z	36	55
melancia (2016)	2	https://doi.org/10.1007/s00417-016-3360-8	18	75
stahl (2013)	2	https://doi.org/10.1007/s10456-012-9302-0	46	53
scholz (2017)	2	https://doi.org/10.1007/s12325-017-0559-y	103	74
flach (1992)	8	https://doi.org/10.1016/0039-6257(92)90095-b	32	149
ho (1992)	2	https://doi.org/10.1016/0039-6257(92)90137-i	72	53
lee (2005b)	1	https://doi.org/10.1016/j.ajo.2004.08.049	25	80
manivannan (2005)	4	https://doi.org/10.1016/j.ajo.2005.02.055	1	115
tasman (2006)	9	https://doi.org/10.1016/j.ajo.2005.07.034	43	54
holekamp (2006)	2	https://doi.org/10.1016/j.ajo.2006.01.016	18	87
lim (2007)	6	https://doi.org/10.1016/j.ajo.2006.11.030	39	56
schmitz-valckenberg (2008)	4	https://doi.org/10.1016/j.ajo.2008.04.006	51	56
soong (2009)	6	https://doi.org/10.1016/j.ajo.2008.08.026	61	178
tugal-tutkun (2009a)	11	https://doi.org/10.1016/j.ajo.2009.04.007	5	66
erie (2009)	7	https://doi.org/10.1016/j.ajo.2009.06.022	54	112
kiernan (2010)	3	https://doi.org/10.1016/j.ajo.2009.08.037	69	170
flores-moreno (2013)	3	https://doi.org/10.1016/j.ajo.2012.07.015	27	174
shoham (2008)	7	https://doi.org/10.1016/j.freeradiomed.2008.07.021	4	136
wu (2004)	5	https://doi.org/10.1016/j.jcrs.2003.07.009	23	80
liu (2005)	5	https://doi.org/10.1016/j.jcrs.2004.09.031	19	555
buehl (2005)	8	https://doi.org/10.1016/j.jcrs.2004.09.053	50	77
yoon (2005)	1	https://doi.org/10.1016/j.jcrs.2004.10.046	70	119
rawer (2005)	1	https://doi.org/10.1016/j.jcrs.2005.01.033	6	69
tahzib (2005)	1	https://doi.org/10.1016/j.jcrs.2005.08.022	126	51
menapace (2005)	8	https://doi.org/10.1016/j.jcrs.2005.08.051	17	50
porter (2006)	1	https://doi.org/10.1016/j.jcrs.2005.10.027	54	52
salib (2006)	7	https://doi.org/10.1016/j.jcrs.2005.10.034	71	57
walter (2006)	10	https://doi.org/10.1016/j.jcrs.2005.12.140	17	64
ciolino (2006)	1	https://doi.org/10.1016/j.jcrs.2006.03.037	42	96
kahraman (2007)	1	https://doi.org/10.1016/j.jcrs.2007.01.013	14	61
ho (2007)	1	https://doi.org/10.1016/j.jcrs.2007.03.028	24	78
ciolino (2007)	1	https://doi.org/10.1016/j.jcrs.2007.04.016	35	56
kim (2008)	15	https://doi.org/10.1016/j.jcrs.2007.08.036	0	63
woodward (2008)	7	https://doi.org/10.1016/j.jcrs.2007.10.025	15	52
touboul (2008)	6	https://doi.org/10.1016/j.jcrs.2007.11.051	8	207
sekundo (2008)	6	https://doi.org/10.1016/j.jcrs.2008.05.033	41	236
neuhann (2008)	1	https://doi.org/10.1016/j.jcrs.2008.06.022	23	58
kamiya (2008)	1	https://doi.org/10.1016/j.jcrs.2008.06.030	31	66
von jagow (2009)	6	https://doi.org/10.1016/j.jcrs.2008.09.013	51	99
vock (2009)	8	https://doi.org/10.1016/j.jcrs.2008.11.044	23	50
leysen (2009)	14	https://doi.org/10.1016/j.jcrs.2009.01.024	0	52
wollensak (2010)	7	https://doi.org/10.1016/j.jcrs.2009.07.044	8	123
moshirfar (2010)	6	https://doi.org/10.1016/j.jcrs.2010.05.027	58	105
ahn (2011)	6	https://doi.org/10.1016/j.jcrs.2010.08.042	82	63
chen (2011)	3	https://doi.org/10.1016/j.jcrs.2010.10.041	26	69
de vries (2011)	1	https://doi.org/10.1016/j.jcrs.2010.11.032	3	244
goldich (2011)	6	https://doi.org/10.1016/j.jcrs.2011.03.038	10	52
savini (2011b)	6	https://doi.org/10.1016/j.jcrs.2011.03.055	25	65
savini (2011a)	6	https://doi.org/10.1016/j.jcrs.2011.04.033	39	112
nagy (2012)	3	https://doi.org/10.1016/j.jcrs.2012.02.031	60	55
kamiya (2012)	6	https://doi.org/10.1016/j.jcrs.2012.06.052	39	53
vestergaard (2012)	6	https://doi.org/10.1016/j.jcrs.2012.07.021	30	182
auffarth (2013)	6	https://doi.org/10.1016/j.jcrs.2012.08.065	28	59
rueckl (2013)	6	https://doi.org/10.1016/j.jcrs.2012.10.043	11	79
vestergaard (2014)	6	https://doi.org/10.1016/j.jcrs.2013.07.053	43	82
wu (2014b)	6	https://doi.org/10.1016/j.jcrs.2013.07.056	44	125
nagy (2014)	6	https://doi.org/10.1016/j.jcrs.2013.08.046	41	85
cruzat (2017)	7	https://doi.org/10.1016/j.jtos.2016.09.004	381	156
geerling (2017)	7	https://doi.org/10.1016/j.jtos.2017.01.006	37	67
gomes (2017)	7	https://doi.org/10.1016/j.jtos.2017.05.004	186	167
edmunds (2004)	5	https://doi.org/10.1016/j.ophtha.2003.04.005	29	52
shimura (2003)	2	https://doi.org/10.1016/j.ophtha.2003.05.008	28	88
tannenbaum (2004)	3	https://doi.org/10.1016/j.ophtha.2003.05.015	62	55
olsen (2004)	4	https://doi.org/10.1016/j.ophtha.2003.05.030	85	63
mason (2004)	2	https://doi.org/10.1016/j.ophtha.2003.05.032	28	56
massin (2004)	2	https://doi.org/10.1016/j.ophtha.2003.05.037	62	328
chalita (2004)	1	https://doi.org/10.1016/j.ophtha.2003.06.022	23	155
jun (2004)	1	https://doi.org/10.1016/j.ophtha.2003.06.026	10	69
browning (2004)	2	https://doi.org/10.1016/j.ophtha.2003.06.028	43	153
fayet (2004)	12	https://doi.org/10.1016/j.ophtha.2003.08.023	10	72
ederer (2004)	5	https://doi.org/10.1016/j.ophtha.2003.09.025	73	120
chiang (2004)	9	https://doi.org/10.1016/j.ophtha.2003.10.030	17	95
tomany (2004)	4	https://doi.org/10.1016/j.ophtha.2003.11.010	53	445
sunness (2004)	4	https://doi.org/10.1016/j.ophtha.2003.12.050	15	107
chan (2004)	4	https://doi.org/10.1016/j.ophtha.2003.12.056	45	240
findl (2004)	3	https://doi.org/10.1016/j.ophtha.2003.12.057	62	52
aung (2004)	5	https://doi.org/10.1016/j.ophtha.2003.12.061	45	82
lorenz (2004)	4	https://doi.org/10.1016/j.ophtha.2004.01.033	85	109
puusaari (2004)	8	https://doi.org/10.1016/j.ophtha.2004.03.027	9	73

gunduz (2004)	8	https://doi.org/10.1016/j.ophtha.2004.04.016	9	54
reus (2004)	3	https://doi.org/10.1016/j.ophtha.2004.04.024	65	129
juzych (2004)	5	https://doi.org/10.1016/j.ophtha.2004.04.030	31	169
varley (2004)	1	https://doi.org/10.1016/j.ophtha.2004.05.016	175	110
rajan (2004)	1	https://doi.org/10.1016/j.ophtha.2004.05.019	217	117
ko (2004)	3	https://doi.org/10.1016/j.ophtha.2004.05.021	64	174
sutter (2004)	2	https://doi.org/10.1016/j.ophtha.2004.05.025	87	181
kanamori (2004)	3	https://doi.org/10.1016/j.ophtha.2004.05.035	99	88
bellmann (2004)	4	https://doi.org/10.1016/j.ophtha.2004.06.019	7	89
kohnen (2004)	1	https://doi.org/10.1016/j.ophtha.2004.06.027	86	108
soong (2005)	6	https://doi.org/10.1016/j.ophtha.2004.06.037	22	83
budenz (2005)	3	https://doi.org/10.1016/j.ophtha.2004.06.039	112	217
findl (2005)	8	https://doi.org/10.1016/j.ophtha.2004.07.032	47	76
gambato (2005)	1	https://doi.org/10.1016/j.ophtha.2004.07.035	122	127
sakai (2005)	5	https://doi.org/10.1016/j.ophtha.2004.08.026	14	68
jaycock (2005)	1	https://doi.org/10.1016/j.ophtha.2004.09.017	144	88
springer (2005)	4	https://doi.org/10.1016/j.ophtha.2004.11.051	28	111
martinez-castillo (2005)	16	https://doi.org/10.1016/j.ophtha.2004.12.046	0	71
browning (2005)	4	https://doi.org/10.1016/j.ophtha.2005.02.011	28	57
oshika (2006)	1	https://doi.org/10.1016/j.ophtha.2006.03.061	92	115
sakata (2006)	2	https://doi.org/10.1016/j.ophtha.2006.04.023	71	53
sharma (2006)	5	https://doi.org/10.1016/j.ophtha.2006.04.031	15	53
kurz (2006)	1	https://doi.org/10.1016/j.ophtha.2006.05.013	19	73
shortt (2006)	1	https://doi.org/10.1016/j.ophtha.2006.08.013	218	74
park (2006)	4	https://doi.org/10.1016/j.ophtha.2006.08.015	58	53
mohamed (2007b)	2	https://doi.org/10.1016/j.ophtha.2006.11.011	41	118
shabayek (2007)	6	https://doi.org/10.1016/j.ophtha.2006.11.033	25	141
mcintosh (2007)	2	https://doi.org/10.1016/j.ophtha.2007.01.010	54	109
ferreras (2007)	3	https://doi.org/10.1016/j.ophtha.2007.01.015	107	53
gomi (2008)	4	https://doi.org/10.1016/j.ophtha.2007.02.031	38	206
wong (2008)	4	https://doi.org/10.1016/j.ophtha.2007.03.008	144	412
leske (2007)	5	https://doi.org/10.1016/j.ophtha.2007.03.016	29	928
lin (2007)	3	https://doi.org/10.1016/j.ophtha.2007.07.005	129	107
minckler (2008)	5	https://doi.org/10.1016/j.ophtha.2008.03.031	12	203
schallhorn (2008)	1	https://doi.org/10.1016/j.ophtha.2008.04.010	55	93
dawson (2008)	1	https://doi.org/10.1016/j.ophtha.2008.06.008	42	99
chen (2008)	2	https://doi.org/10.1016/j.ophtha.2008.08.026	12	104
boixadera (2009)	4	https://doi.org/10.1016/j.ophtha.2008.08.029	65	71
inoue (2009)	3	https://doi.org/10.1016/j.ophtha.2008.09.008	30	117
noma (2009)	2	https://doi.org/10.1016/j.ophtha.2008.09.034	28	157
scott (2009)	2	https://doi.org/10.1016/j.ophtha.2008.10.017	50	92
oshima (2009)	2	https://doi.org/10.1016/j.ophtha.2008.11.005	37	121
see (2009)	3	https://doi.org/10.1016/j.ophtha.2008.12.005	20	73
solomon (2009)	1	https://doi.org/10.1016/j.ophtha.2008.12.037	58	202
bolz (2009)	2	https://doi.org/10.1016/j.ophtha.2008.12.039	19	259
sung (2009a)	3	https://doi.org/10.1016/j.ophtha.2008.12.045	52	157
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tugal-tutkun (2009b)	11	https://doi.org/10.1016/j.ophtha.2009.02.019	5	51
hillenkamp (2009)	5	https://doi.org/10.1016/j.ophtha.2009.03.029	9	93
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ng (2002)	9	https://doi.org/10.1016/s0161-6420(01)01017-x	27	123
hamilton (2002)	1	https://doi.org/10.1016/s0161-6420(01)01023-5	17	81
sridhar (2002)	1	https://doi.org/10.1016/s0161-6420(01)01027-2	8	66
el danasoury (2002)	1	https://doi.org/10.1016/s0161-6420(02)00964-8	117	85
song (2002)	5	https://doi.org/10.1016/s0161-6420(02)00965-x	17	128
martidis (2002)	2	https://doi.org/10.1016/s0161-6420(02)00975-2	62	696
oshika (2002)	1	https://doi.org/10.1016/s0161-6420(02)01028-x	92	132
miglior (2002)	3	https://doi.org/10.1016/s0161-6420(02)01032-1	75	68
schmidt-erfurth (2002b)	4	https://doi.org/10.1016/s0161-6420(02)01059-x	60	98
stanga (2002)	3	https://doi.org/10.1016/s0161-6420(02)01099-0	73	95

saperstein (2002)	4	https://doi.org/10.1016/s0161-6420(02)01103-x	45	60
erie (2002)	1	https://doi.org/10.1016/s0161-6420(02)01106-5	101	106
moore (2002)	12	https://doi.org/10.1016/s0161-6420(02)01114-4	11	97
bernstein (2002)	4	https://doi.org/10.1016/s0161-6420(02)01173-9	28	193
singh (2002)	4	https://doi.org/10.1016/s0161-6420(02)01177-6	30	99
davis (2002)	1	https://doi.org/10.1016/s0161-6420(02)01245-9	35	50
mcdonald (2002)	1	https://doi.org/10.1016/s0161-6420(02)01255-1	31	69
prisant (2003)	1	https://doi.org/10.1016/s0161-6420(02)01298-8	59	81
dick (2003)	1	https://doi.org/10.1016/s0161-6420(02)01447-1	92	107
schmidt-erfurth (2002a)	4	https://doi.org/10.1016/s0161-6420(02)01454-9	80	102
stanga (2003)	4	https://doi.org/10.1016/s0161-6420(02)01563-4	40	203
freitas (2003)	1	https://doi.org/10.1016/s0161-6420(02)01643-3	120	91
randleman (2003)	1	https://doi.org/10.1016/s0161-6420(02)01727-x	85	467
chan (2003)	17	https://doi.org/10.1016/s0161-6420(02)01737-2	0	70
spaide (2003)	4	https://doi.org/10.1016/s0161-6420(02)01756-6	38	180
karp (2003)	1	https://doi.org/10.1016/s0161-6420(02)01760-8	74	83
vukich (2003)	1	https://doi.org/10.1016/s0161-6420(02)01771-2	87	196
choplin (2003)	3	https://doi.org/10.1016/s0161-6420(02)01899-7	34	63
donnenfeld (2003)	1	https://doi.org/10.1016/s0161-6420(02)01936-x	110	60
terry (2003)	6	https://doi.org/10.1016/s0161-6420(02)01939-5	19	133
porrini (2003)	4	https://doi.org/10.1016/s0161-6420(02)01968-1	70	70
chen (2003)	5	https://doi.org/10.1016/s0161-6420(02)01974-7	60	130
hersh (2003)	1	https://doi.org/10.1016/s0161-6420(02)01981-4	47	105
ford (2003)	3	https://doi.org/10.1016/s0161-6420(03)00230-6	73	99
saxena (2003)	1	https://doi.org/10.1016/s0161-6420(03)00405-6	27	54
bailey (2003)	1	https://doi.org/10.1016/s0161-6420(03)00455-x	82	108
yoshida (2003)	4	https://doi.org/10.1016/s0161-6420(03)00461-5	20	241
reus (2003)	3	https://doi.org/10.1016/s0161-6420(03)00479-2	34	53
schallhorn (2003)	1	https://doi.org/10.1016/s0161-6420(03)00494-9	56	106
javitt (2003)	4	https://doi.org/10.1016/s0161-6420(03)00495-0	15	83
saw (2003)	5	https://doi.org/10.1016/s0161-6420(03)00540-2	58	89
ritch (2003)	5	https://doi.org/10.1016/s0161-6420(03)00563-3	26	76
chew (2003)	2	https://doi.org/10.1016/s0161-6420(03)00579-7	39	103
pereira (2003)	5	https://doi.org/10.1016/s0161-6420(03)00623-7	32	86
seitz (2003)	6	https://doi.org/10.1016/s0161-6420(03)00659-6	10	85
fernandez-vega (2003)	1	https://doi.org/10.1016/s0161-6420(03)00794-2	22	63
nicolela (2003)	3	https://doi.org/10.1016/s0161-6420(03)00801-7	16	56
el beltagi (2003)	3	https://doi.org/10.1016/s0161-6420(03)00860-1	69	111
byrnes (1995)	5	https://doi.org/10.1016/s0161-6420(95)30870-6	8	66
bressler (1995)	4	https://doi.org/10.1016/s0161-6420(95)30889-5	52	58
cohen (1996)	4	https://doi.org/10.1016/s0161-6420(96)30515-0	10	270
naumann (1998)	3	https://doi.org/10.1016/s0161-6420(98)96020-1	10	357
garcia-arumi (2000b)	4	https://doi.org/10.1016/s0161-6420(99)00018-4	23	51
maldonado (2000)	1	https://doi.org/10.1016/s0161-6420(99)00022-6	141	176
banach (2000)	9	https://doi.org/10.1016/s0161-6420(99)00042-1	24	62
pop (2000)	1	https://doi.org/10.1016/s0161-6420(99)00043-3	109	62
garcia-arumi (2000a)	4	https://doi.org/10.1016/s0161-6420(99)00046-9	32	60
arevalo (2000)	1	https://doi.org/10.1016/s0161-6420(99)00078-0	35	80
dick (2000)	8	https://doi.org/10.1016/s0161-6420(99)00082-2	23	61
harris (2000)	4	https://doi.org/10.1016/s0161-6420(99)00093-7	1	64
holland (2000b)	1	https://doi.org/10.1016/s0161-6420(99)00131-1	68	108
felt (1999)	21	https://doi.org/10.1016/s0378-5173(99)00003-4	0	284
kruger (2000)	8	https://doi.org/10.1016/s0886-3350(00)00323-0	19	90
schnitzler (2000)	1	https://doi.org/10.1016/s0886-3350(00)00486-7	30	71
perez-santonja (2000)	1	https://doi.org/10.1016/s0886-3350(00)00543-5	167	78
lee (2000a)	1	https://doi.org/10.1016/s0886-3350(00)00566-6	84	91
shah (2000)	1	https://doi.org/10.1016/s0886-3350(00)00570-8	16	118
yildirim (2000)	1	https://doi.org/10.1016/s0886-3350(00)00639-8	59	103
kwitko (2001)	1	https://doi.org/10.1016/s0886-3350(00)00642-8	39	58
findl (2001)	3	https://doi.org/10.1016/s0886-3350(00)00699-4	154	131
matsui (2001)	1	https://doi.org/10.1016/s0886-3350(00)00756-2	34	68
mrochen (2001b)	1	https://doi.org/10.1016/s0886-3350(00)00806-3	107	200
mrochen (2001c)	1	https://doi.org/10.1016/s0886-3350(00)00827-0	68	178
lee (2001)	1	https://doi.org/10.1016/s0886-3350(00)00880-4	94	150
mrochen (2001a)	1	https://doi.org/10.1016/s0886-3350(00)00884-1	55	55
schauersberger (2001)	8	https://doi.org/10.1016/s0886-3350(01)01019-7	41	56
hosal (2002)	8	https://doi.org/10.1016/s0886-3350(01)01028-8	27	56
abela-formanek (2002)	8	https://doi.org/10.1016/s0886-3350(01)01122-1	54	126
uusitalo (2002)	1	https://doi.org/10.1016/s0886-3350(01)01218-4	83	107
montan (2002)	18	https://doi.org/10.1016/s0886-3350(01)01270-6	0	129
kiss (2002)	3	https://doi.org/10.1016/s0886-3350(01)01272-x	148	53
gokmen (2002)	1	https://doi.org/10.1016/s0886-3350(02)01275-0	190	50
nuijts (2002)	1	https://doi.org/10.1016/s0886-3350(02)01511-0	90	65
buecler (2003)	1	https://doi.org/10.1016/s0886-3350(02)01638-3	68	93
carones (2002)	1	https://doi.org/10.1016/s0886-3350(02)01701-7	110	180
lee (2003)	1	https://doi.org/10.1016/s0886-3350(02)01844-8	191	75
autrata (2003)	1	https://doi.org/10.1016/s0886-3350(02)01897-7	123	72
sekundo (2003)	1	https://doi.org/10.1016/s0886-3350(03)00062-2	86	68
autrata (2004)	1	https://doi.org/10.1016/s0886-3350(03)00417-6	91	52
wirtitsch (2004)	3	https://doi.org/10.1016/s0886-3350(03)00459-0	72	68
aizawa (2003)	1	https://doi.org/10.1016/s0886-3350(03)00472-3	114	59
ranta (2004)	8	https://doi.org/10.1016/s0886-3350(03)00558-3	19	58
aramberri (2003)	10	https://doi.org/10.1016/s0886-3350(03)00957-x	27	216
galand (1996)	8	https://doi.org/10.1016/s0886-3350(96)80042-3	10	63
tetz (1996)	8	https://doi.org/10.1016/s0886-3350(96)80120-9	18	61
pallikaris (1997)	1	https://doi.org/10.1016/s0886-3350(97)80149-6	110	100
perezsantonja (1997)	1	https://doi.org/10.1016/s0886-3350(97)80182-4	162	266
farah (1998)	1	https://doi.org/10.1016/s0886-3350(98)80056-4	158	217
findl (1998a)	3	https://doi.org/10.1016/s0886-3350(98)80102-8	182	102
findl (1998b)	3	https://doi.org/10.1016/s0886-3350(98)80103-x	145	65
wiesinger-jendritza (1998)	1	https://doi.org/10.1016/s0886-3350(98)80196-x	40	55
perez-santonja (1998)	1	https://doi.org/10.1016/s0886-3350(98)80198-3	99	101

gunning (1998)	5	https://doi.org/10.1016/s0886-3350(98)80227-7	19	118
alio (1998)	1	https://doi.org/10.1016/s0886-3350(98)80256-3	90	98
kaufman (1998)	1	https://doi.org/10.1016/s0886-3350(98)80347-7	5	102
yi (1999)	1	https://doi.org/10.1016/s0886-3350(99)00139-x	90	71
tsai (2000)	1	https://doi.org/10.1016/s0886-3350(99)00328-4	24	63
schwiergerling (2000)	1	https://doi.org/10.1016/s0886-3350(99)00359-4	10	78
kim (1999)	1	https://doi.org/10.1016/s0886-3350(99)80085-6	51	60
berendschot (2003)	4	https://doi.org/10.1016/s1350-9462(02)00060-5	119	93
tervo (2003)	1	https://doi.org/10.1016/s1350-9462(02)00064-2	316	78
nettune (2010)	7	https://doi.org/10.1016/s1542-0124(12)70224-0	208	86
stefansson (2000)	2	https://doi.org/10.1034/j.1600-0420.2000.078004374.x	99	186
broadbent (1999)	2	https://doi.org/10.1038/eye.1999.43	60	50
jasvinder (2011)	3	https://doi.org/10.1038/eye.2011.28	40	54
robles (2011)	3	https://doi.org/10.1038/nphoton.2011.257	42	150
juzeniene (2007)	6	https://doi.org/10.1039/b705461k	14	207
edwards (2003)	6	https://doi.org/10.1063/1.1584078	16	77
raisler (2002)	4	https://doi.org/10.1073/pnas.122247299	12	106
gehres (2006)	4	https://doi.org/10.1080/07853890600946724	152	429
fercher (2003)	3	https://doi.org/10.1088/0034-4885/66/2/204	242	1459
peng (2008)	6	https://doi.org/10.1088/0034-4885/71/5/056701	44	144
lee (2005a)	5	https://doi.org/10.1093/ajhp/62.7.691	53	174
scholte (2001)	5	https://doi.org/10.1097/00061198-200108000-00009	49	93
kobayashi (2005)	7	https://doi.org/10.1097/01.icc.0000160976.88824.2b	7	79
cillino (2004)	5	https://doi.org/10.1097/01.ijg.0000137869.18156.81	4	88
freeman (2010)	3	https://doi.org/10.1097/iae.0b013e3181bd2f94	77	50
zhang (2019)	7	https://doi.org/10.1097/icl.0000000000000544	50	53
gomes (2015)	6	https://doi.org/10.1097/ico.0000000000000408	30	433
vegunta (2016)	7	https://doi.org/10.1097/ico.0000000000000735	17	75
kaufman (2013)	7	https://doi.org/10.1097/ico.0b013e3182541e9a	12	54
zimmer-galler (2015)	2	https://doi.org/10.1097/icu.0000000000000142	22	61
adhi (2013)	3	https://doi.org/10.1097/icu.0b013e32835f8bf8	148	337
williams (2018)	5	https://doi.org/10.1097/ijg.0000000000000934	26	69
pinz (1998)	4	https://doi.org/10.1109/42.730405	18	172
shen (2001)	3	https://doi.org/10.1109/4233.908405	9	53
sorokin (2005)	3	https://doi.org/10.1109/jstqe.2003.850255	62	92
hoy (2014)	6	https://doi.org/10.1109/jstqe.2013.2287098	44	81
tanter (2009)	6	https://doi.org/10.1109/tmi.2009.2021471	18	161
sakata (2009)	3	https://doi.org/10.1111/j.1442-9071.2009.02015.x	145	162
guthoff (2009)	7	https://doi.org/10.1111/j.1442-9071.2009.02016.x	87	157
fenwick (2012)	2	https://doi.org/10.1111/j.1442-9071.2011.02599.x	15	71
mcalinden (2012)	1	https://doi.org/10.1111/j.1444-0938.2012.00761.x	150	51
hove (2004)	2	https://doi.org/10.1111/j.1600-0420.2004.00270.x	50	66
han (2004)	6	https://doi.org/10.1117/1.1756919	11	54
hammer (2006)	4	https://doi.org/10.1117/1.2335470	8	60
yamanari (2008)	3	https://doi.org/10.1117/1.2841024	133	89
boas (2010)	3	https://doi.org/10.1117/1.3285504	9	645
podoleanu (1998)	3	https://doi.org/10.1117/1.429859	94	152
molebny (2017)	3	https://doi.org/10.1117/1.oe.56.3.031220	9	74
drexler (1995)	3	https://doi.org/10.1117/12.191809	127	54
schmetterer (1995)	3	https://doi.org/10.1117/12.193292	18	127
konishi (1995)	3	https://doi.org/10.1117/12.195203	2	56
darlow (2013)	9	https://doi.org/10.1136/archdischild-2011-301148	71	77
nagar (2005)	5	https://doi.org/10.1136/bjo.2004.052795	25	176
reus (2007)	3	https://doi.org/10.1136/bjo.2006.096586	66	58
konstantopoulos (2007)	5	https://doi.org/10.1136/bjo.2006.103408	34	224
kristinsson (1997)	2	https://doi.org/10.1136/bjo.81.4.274	25	118
laurell (2002)	8	https://doi.org/10.1136/bjo.86.12.1380	11	80
abdel-meguid (2003)	4	https://doi.org/10.1136/bjo.87.5.615	44	61
chan (2016)	6	https://doi.org/10.1136/bjophthalmol-2015-307238	49	63
rodriguez (2019)	2	https://doi.org/10.1155/2019/4940825	78	66
schalnus (2003)	8	https://doi.org/10.1159/000068563	43	90
wong (2020)	2	https://doi.org/10.1159/000502387	25	77
vernon (2005)	3	https://doi.org/10.1167/iovs.05-0087	59	54
eter (2008)	4	https://doi.org/10.1167/iovs.07-1322	1	64
wolf-schnurrbusch (2008)	4	https://doi.org/10.1167/iovs.07-1460	68	102
wakamatsu (2010)	7	https://doi.org/10.1167/iovs.08-2722	35	67
lofqvist (2009)	4	https://doi.org/10.1167/iovs.08-2903	3	59
yanni (2009)	2	https://doi.org/10.1167/iovs.09-3652	11	54
schweitzer (2010)	6	https://doi.org/10.1167/iovs.09-3689	105	93
mcalinden (2010)	1	https://doi.org/10.1167/iovs.10-5341	31	190
barker (2011)	4	https://doi.org/10.1167/iovs.10-5898	34	120
ang (2012)	6	https://doi.org/10.1167/iovs.11-8808	43	76
mukherjee (2012)	7	https://doi.org/10.1167/iovs.12-9848	1	55
labbe (2013)	7	https://doi.org/10.1167/iovs.13-12370	67	128
kheirkhah (2015)	7	https://doi.org/10.1167/iovs.15-17433	46	89
kelly (2007)	4	https://doi.org/10.1172/jci32430	1	167
arany (2016)	6	https://doi.org/10.1177/0022034516648939	3	79
meinert (2000)	20	https://doi.org/10.1177/112067210001000301	0	92
lexer (1997)	3	https://doi.org/10.1364/aoe.4.0006548	131	141
braaf (2013)	3	https://doi.org/10.1364/boe.4.000051	92	99
scoles (2013)	4	https://doi.org/10.1364/boe.4.001710	27	94
lu (2014)	3	https://doi.org/10.1364/boe.5.000293	98	136
carrasco-zevallos (2017)	3	https://doi.org/10.1364/boe.8.001607	143	81
potsaid (2008)	3	https://doi.org/10.1364/oe.16.015149	161	314
suzuki (2015)	3	https://doi.org/10.1364/ol.40.000804	7	51
jiao (2005)	3	https://doi.org/10.1364/opex.13.000444	75	164
alvarez (2009)	2	https://doi.org/10.1371/journal.pone.0007867	14	58
rouland (2005)	5	https://doi.org/10.2165/00002512-200522040-00004	19	50
leese (2008)	2	https://doi.org/10.2337/dc08-1098	5	81
tur (1991)	22	https://doi.org/10.2337/diacare.14.11.958	0	63
villani (2014)	7	https://doi.org/10.3109/02713683.2013.842592	205	139
ooto (2015)	3	https://doi.org/10.3109/02713683.2014.952828	226	61

lombardo (2013)	4	https://doi.org/10.3390/s130100334	89	76
tampa (2019)	6	https://doi.org/10.3892/ol.2019.9939	1	50
zhang (2016)	7	https://doi.org/10.3928/1081597x-20151111-06	50	96
griffiths (2016)	4	https://doi.org/10.3978/j.issn.2227-684x.2016.02.01	7	68
alio (2012)	7	10.2174/138920112800624355	10	77
eydelman (2006)	1	10.3928/1081-597X-20060101-16	14	85
barbazetto (2003)	4	10.1001/archopht.121.9.1253	56	174
jean (2003)	6		15	83
arnold (2001a)	4	10.1016/s0002-9394(01)00967-9	40	731
arnold (2001b)	4	10.1016/s0161-6420(01)00544-9	30	378
koznarova (2000)	2	10.1177/096368970000900617	9	56
bressler (1999)	4		73	1365
maloney (1995)	1	10.1016/s0161-6420(95)30913-x	49	53
sturmer (1993)	5	10.1016/s0161-6420(93)31552-6	23	74
vogel (1986)	3	10.1016/s0161-6420(86)33576-0	10	129
gupta (2016)	5		66	65

Supplementary Table 5. Average citations and total link strength of authors per cluster based on bibliographic coupling analysis (Authors) .

Authors	Cluster	Total Link Strength	Avg. citations
abela-formanek, c	4	1626	37
abell, robin g.	1	1202	53.5
agnifili, luca	1	505	29.75
ahmed, iqbal ike k.	1	1354	60.8
aiello, lloyd paul	2	2090	159
alio, jl	1	1986	60.5385
alio, jorge l.	1	1749	40.6154
amano, s	1	892	73.6
ambler, gareth	6	3675	22
amon, m	4	2637	33.75
ang, marcus	1	791	42.25
apple, dj	4	940	84.25
apte, rajendra s.	2	483	56.5
araie, makoto	6	2251	57
archer, timothy j.	1	379	15.5
arnold, jennifer j.	8	1827	43.5
auffarth, gerd u.	4	908	28
auffarth, gu	4	790	74.8
aung, t	3	1268	77.2857
aung, tin	3	6069	25.8947
autrata, r	1	1304	42
azar, dt	1	910	79.5
azuara-blanco, augusto	3	2033	19.6667
bachernegg, alexander	4	812	33.25
bakri, sophie j.	2	2693	51
bandello, francesco	2	1801	393
barton, keith	6	3610	26.5
baskaran, mani	3	2749	32
baudouin, c.	1	664	3.25
baudouin, christophe	7	3513	95.2857
beck, roy w.	2	2378	208.1667
berliner, alyson j.	2	13975	142.1667
billman, kathleen	2	2844	195.5
boehm, myriam	1	802	12.5
bolz, matthias	2	5648	41.5455
bowd, c	3	914	70.75
bowd, christopher	3	2924	28.5
boyer, david	2	3916	254
boyer, david s.	2	15416	256.4286
bressler, neil m.	2	4742	155.1
bressler, nm	5	282	338.6
brinkmann, ralf	2	2148	6.2857
brown, david m.	2	15756	244.7647
brown, gary c.	2	2993	69.5
buehl, w	4	3302	48.5
buehl, wolf	4	1761	32.5
buehren, jens	1	850	19
buhren, j	1	1545	32.7143
bunce, catey	6	4788	24.375
buzney, sm	2	69	7
campochiaro, peter a.	2	8327	181.9286
cavanagh, hd	1	1572	57.1429
chakravarthy, usha	8	3085	88
chan, r. v. paul	5	1240	15.4
chauhan, balwantray c.	3	1599	76.8571
chen, fred k.	8	2190	26.6667
chen, philip p.	3	2461	47.6
chew, emily y.	8	1016	16.25
chew, paul t. k.	3	2187	22.2
chew, ptk	3	694	101.25
chiang, michael f.	5	1338	18.2857
chu, renyuan	1	846	19.25
ciulla, thomas a.	2	3561	130
congdon, nathan	3	1027	30.5
cox, ig	1	694	58.75
culbertson, ww	1	1704	95.6
curcio, christine a.	8	766	59.5
dana, reza	7	1708	38.5
desmettre, t	9	710	130.75
devoisselle, jm	9	789	109.2
dexl, alois k.	4	812	33.25
dick, h. burkhard	1	328	21.75
dick, hb	1	781	37.2
do, diana v.	2	10004	209.6
dogru, murat	7	3750	49.8182
drener, kimberly a.	5	396	19
drexler, w	4	5497	209.6364
dua, harminder s.	1	1482	35.5
duker, jay s.	4	1427	123.5
ehlers, justis p.	2	3475	45.2
ehrlich, jason s.	2	4334	272.6
elman, michael j.	2	2214	239.5
fankhauser, f	9	121	7.5
farsiu, sina	4	873	40.6

fauser, sascha	7	2408	47.2
fercher, af	4	4443	266.5
findl, o	4	6741	46.3684
findl, oliver	4	2528	21.2
finger, robert p.	8	1587	35.5
flaxel, christina j.	2	3532	199.25
fleckenstein, monika	8	1319	52.75
fontana, luigi	3	224	20.5
foster, paul j.	3	2948	27.3333
francis, brian a.	3	3264	77.4444
freeman, william r.	2	845	33.5
friedman, david s.	3	4357	30.5714
fujimoto, james g.	4	2486	247.8571
garg, anurag	6	3929	23.75
garway-heath, david	6	4111	27
gazzard, g	3	1177	63.25
gazzard, gus	6	4533	24.4286
georgopoulos, michael	4	1081	22.5
gibson, andrea	2	5674	277.5
girkin, christopher a.	3	2564	73.6
glassman, adam r.	2	3559	183.875
grabner, g	1	341	19.75
grabner, guenther	4	812	33.25
grzybowski, andrzej	7	741	7
guell, jl	1	493	44.5
guthoff, rudolf f.	7	927	40.5
guymer, robyn h.	8	2359	31
haller, julia a.	2	2552	119.25
hamrah, pedram	7	5367	58.8
hangai, masanori	3	1311	82.5
hardten, dr	1	463	28.75
harper, colin a.	8	1614	30.5
hashemi, hassan	1	365	6.4
he, mingguang	3	3073	31.3
heier, jeffrey s.	2	6855	227.4286
hemkeppler, eva	1	656	11.5
hengerer, fritz h.	1	1100	53.8
hersh, ps	1	1204	45.3333
hitzenberger, christoph k.	4	2355	61.5
hitzenberger, ck	4	4384	286.4286
ho, allen c.	2	2681	103.2
holz, frank g.	2	11131	120.6111
htoon, hla m.	3	800	22.25
hu, fr	1	1029	32.5
huang, david	1	1659	249.8
huang, jia	1	970	12.5
ibrahim, osama m. a.	7	1356	52
igarashi, akihito	1	1385	32.8333
ishaq, mazhar	1	456	5.25
issa, peter charbel	8	1330	41.7143
iwase, aiko	3	997	65.25
izatt, joseph a.	4	1127	38
jaffe, glenn j.	2	4824	255.5
jampel, henry d.	3	2706	114.6667
jampol, lee m.	2	2526	138
jester, jv	1	1350	75.4
jhanji, vishal	1	839	26.8
joo, choun-ki	1	533	32.5
kaemmerer, m	1	973	101.2
kahook, malik y.	6	1608	9.2
kaiserman, igor	1	877	13.6
kamiya, kazutaka	1	1385	32.8333
kampik, anselm	1	260	10.25
kapik, barry	2	2844	195.5
katsanos, andreas	6	3691	15.6667
kheirkhah, ahmad	7	1416	37.6
kim, ek	1	1497	58.875
kim, eung kweon	1	1013	23.5
kim, jk	1	817	31.75
kim, stephen j.	2	4568	41.2857
kim, tae-im	1	893	22.2
kivela, t	5	384	39
klein, ronald	2	1904	108.75
koch, dd	1	1574	118.4
koch, douglas d.	4	1202	28.6667
kohnen, t	1	2337	35.5455
kohnen, thomas	1	4515	19.8947
kojima, takashi	7	2381	60
kolodjaschna, j	4	1084	26.5
komatsu, mari	1	945	28.25
konstantakopoulou, evgenia	6	3929	23.75
korobelnik, jean-francois	2	5132	170.8
kriechbaum, k	4	1921	61.75
kriechbaum, katharina	2	834	79.6
krieglstein, gk	4	274	21
kristinsson, jk	2	1450	69.5

krueger, rr	1	654	62.3333
kruger, a	4	2415	44.9091
kruse, friedrich e.	1	637	14.5
kuchle, m	1	575	99.8
kumar, rajesh s.	3	1819	22
kunikata, hiroshi	6	290	8.75
kuppermann, baruch d.	2	2290	59.6
kymionis, george d.	1	1153	42.6
la cour, morten	2	162	27
lam, dsc	1	560	89.5
langenbucher, a	1	1521	49.1667
langenbucher, a.	1	400	6.5
langenbucher, achim	1	508	5.25
lavanya, raghavan	3	1846	43.25
lee, aaron y.	6	119	5.75
lee, dh	1	604	27.75
lee, hk	1	817	31.75
lemij, hg	3	1064	45.75
leung, christopher k. s.	3	1085	57.5
leydolt, christina	4	1336	13.4
li, tianjing	3	791	46
li, xiaoxin	2	1256	44.75
liebmann, jeffrey m.	3	2224	44.6
lin, jm	1	426	19
lin, shan c.	3	3272	76.2222
liu, shu	3	1303	71.25
loewenstein, anat	2	2141	27.3333
lois, noemi	2	1326	13.6
lum, flora	3	259	6.75
luu, chi d.	8	2359	31
luyten, gpm	1	584	53.75
macrae, s	1	776	56.75
maguire, maureen g.	2	1629	16
maloney, rk	1	1632	49.625
manche, edward e.	1	1076	29
manche, ee	1	1583	35
marcus, dennis m.	2	6759	386
marshall, j	1	3370	45.8333
marshall, john	1	515	23
mashayekhi, arman	5	491	22.5
mastropasqua, alessandra	1	1225	24
mastropasqua, leonardo	1	1733	30
matsumoto, yukihiro	7	2180	46.625
mattei, peter a.	1	1225	24
mayer, wolfgang j.	1	2256	18.7143
mcculley, jp	1	879	29.25
mcdonald, mb	1	1141	44.6667
mcguinness, myra b.	8	1672	40.8
medeiros, felipe a.	3	4042	69.8889
mehta, jodhbir s.	1	2919	39.4545
melia, michele	2	3231	127.1429
menabuoni, luca	1	181	26.4
menapace, r	4	5635	62.8333
menapace, rupert	4	3522	17.9231
metzig, carola	2	10460	140.875
midena, edoardo	2	4853	231.6
mikropoulos, dimitrios g.	6	2317	19.25
mimouni, michael	1	757	6
mirshahi, a	1	857	41.75
mirshahi, alireza	1	1817	3.5
mittell, paul	2	5817	168.2727
miura, yoko	2	1655	10
mohammadpour, mehrdad	1	488	8.8
mordon, s	9	710	130.75
moshifarf, majid	1	560	19.4286
mrochen, m	1	1854	69.1
mruthunjaya, prithvi	2	2309	36.25
nakazawa, toru	6	336	8.6
nathwani, neil	6	3929	23.75
naumann, goh	1	456	101
neumayer, thomas	4	1674	28.25
nguyen, quan d.	2	5532	272
nicolela, marcelo t.	3	1343	86.1667
nishida, kohji	1	509	117.5
nishida, t	1	278	40.8
nongpiur, monisha e.	3	1822	19.5
nudleman, eric	5	415	11.75
o'brart, dps	1	1563	77.75
o'brien, terrence p.	1	841	40.5
ooto, sotaro	3	1090	41.2
oshika, t	1	1428	53.375
pablo, luis e.	3	948	31.5
pearce, ian	2	1665	43.25
perez-santonja, jj	1	851	52
pesudovs, konrad	1	434	75.25
petermann, kerstin	1	1891	12

petroll, wm	1	1276	83.25
peternel, v	4	774	21.2
pinero, david p.	1	873	27.75
pircher, michael	4	2355	61.5
polo, vicente	3	948	31.5
potsaid, benjamin	4	1558	263
priglinger, siegfried	1	1684	27.25
puliafita, ca	4	2063	140.375
qian, yishan	1	970	12.5
quan dong nguyen	2	6238	264.2857
quaranta, luciano	6	2616	20.5
querques, giuseppe	7	309	45.75
quinn, graham e.	5	420	64.8
rainer, g	4	1558	45.5
rajan, ms	1	1958	54.4
raman, rajiv	2	1083	16.5
ramasamy, kim	2	939	11.2
ramulu, pradeep y.	3	1535	38.8
randleman, j. bradley	1	427	38.2
rapuano, cj	1	2070	106.8
rathjen, christian	1	1912	2.5
regillo, cd	5	269	80.5
rehurek, j	1	1304	42
reinstein, dan z.	1	379	15.5
reus, nj	3	644	62
roider, johann	2	1201	26.6
rosman, mohamad	1	547	23.5
rubio, roman g.	2	3542	328.8
sacu, s	4	2493	49.6667
sacu, stefan	4	1824	31
sadda, srinivas	8	1083	25
sadda, srinivas r.	8	2338	24.5556
saroj, namrata	2	7045	67.7143
schallhorn, julie m.	1	690	10.8
schallhorn, steven c.	1	1606	35
schauersberger, j	4	2505	37.9
schild, g	4	2194	47.2857
schlenker, matthew b.	1	1154	73.5
schlingemann, reinier o.	2	3207	242.8
schmelter, thomas	2	5899	323
schmetterer, l	4	243	27.5
schmetterer, leopold	7	1252	10.25
schmidt-erfurth, um	5	319	64
schmidt-erfurth, ursula	2	10931	206.2667
schmitz-valckenberg, steffen	8	1588	51.2
schoenberger, scott d.	2	2951	46.75
scholda, christoph	2	4162	55.8571
scholl, hendrik p. n.	7	1574	36
schuman, joel s.	3	1590	78
schuman, js	3	729	88.25
schwarzenbacher, luca	4	868	2.25
scott, ingrid u.	2	2229	104.8333
seiler, t	1	1901	68.4545
seitz, b	1	1765	38.7778
seitz, b.	1	400	6
seitz, berthold	7	929	8.8889
seo, kyoung yul	1	952	26.4
seong, gj	1	889	49.25
shah, gaurav k.	2	55	6.5
shah, syed mahmood	2	2388	175.4
shajari, mehdi	1	2018	7.1429
sharp, pf	4	347	56.75
shcherbakov, i. a.	1	160	2
shields, carol l.	5	1116	26.3333
shields, cl	5	404	69.7143
shields, ja	5	404	69.7143
shields, jerry a.	5	1116	26.3333
shimizu, kimiya	1	1239	28.8
shtein, roni m.	1	529	23.75
silva, paolo s.	2	4701	98.8
simader, christian	2	5639	400.4
singh, kuldev	3	2945	92.5714
singh, rishi p.	2	4033	14
sivaprasad, sobha	2	4863	8.875
smith, scott d.	3	2873	107.3333
soo, yuhwen	2	9288	196
soubrane, g	5	78	78
stachs, oliver	7	950	34
stalman, ingeborg	3	464	50.6
staurengi, giovanni	2	3511	20.8333
stefansson, e	2	1030	82.4
steinert, rf	1	465	22.75
stifter, eva	4	1378	24
stulting, rd	1	1138	93.5
sugar, a	1	1999	130.5
sun, jennifer k.	2	6607	91.8

tanzer, david j.	1	1134	63
tasman, w	5	272	85.25
terasaki, hiroko	2	6061	258
teus, miguel a.	6	1590	13.75
theisen-kunde, dirk	2	1590	6.25
thompson, desmond	2	3677	16
thompson, kp	1	712	127.5
tommila, p	5	367	38
toth, jozsef	5	13	0.25
toto, lisa	1	1327	19.2
trese, michael t.	5	466	17.8
tsai, james c.	3	428	32.4
tsai, yy	1	426	19
tsubota, kazuo	7	2754	38.2308
tsujikawa, akitaka	3	381	31
tuuminen, raimo	4	235	7.75
varma, rohit	2	1925	27.8
vecchiarino, luca	1	1135	23
vernon, sa	3	922	22.4
vickerstaff, victoria	6	3675	22
villani, edoardo	7	1675	69.5
viola, francesco	8	304	42.75
vitti, robert	2	14874	144.8333
vote, brendan j.	1	1202	53.5
wachler, bsb	1	1465	50
wang, li	1	806	31.6667
wedrich, andreas	2	4652	1.5
weinreb, rn	3	1173	65.4
weinreb, robert n.	3	5445	68.0625
werner, john s.	4	1179	13.2
wirbelauer, c	1	943	25.6
wirtitsch, m	4	2717	48.8333
wollstein, g	3	747	77.25
wong, hon-tym	3	1819	22
wong, tien y.	3	3147	129
wong, tien yin	3	1126	80
wormald, richard	6	3598	57.5
wu, wei-chi	5	1191	37
wu, zhichao	8	1934	32.6
wyckoff, charles c.	2	7683	27.7273
yamanaka, a	1	595	27.6
ye, cong	3	1628	69.6
yeh, steven	2	2951	46.75
ying, gui-shuang	3	692	14.2
yoo, sonia h.	1	763	26.3333
yoshimura, nagahisa	3	1437	70
yu, fei	3	192	33.25
yu, marco	3	1682	41.6667
zangwill, linda m.	3	4778	68.7273
zangwill, lm	3	1173	65.4
zawadzki, robert j.	4	1229	14
zebardast, nazlee	3	1392	10.2
zeitz, oliver	2	9771	191.8571
zhou, xingtao	1	1205	14.7143
