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Summary

Surgeon–scientist and applied mathematician, holding dual doctorates in medicine and applied mathematics, who heads a high-volume, hospital-based anterior segment and refractive surgery service (>1,300 corneal laser procedures and >400 cataract/anterior segment surgeries per year). The unifying thread of this work is the translation of rigorous physical and mathematical optics into instruments, algorithms and surgical decisions that measurably improve the visual outcome of individual patients.

Optical design and IOL technology. Designer of the optical profile of the first diffractive **trifocal IOL** (FineVision; U.S. FDA approval, September 2025), a design now recognized as the origin of the modern trifocal category, and inventor on patent families covering trifocal optics with chromatic aberration control, ocular wavefront-correction profiling, and IOL modelling. This design work is anchored in an experimental programme of **IOL metrology** — optical bench, quadri-wave lateral shearing and high-resolution Mach–Zehnder interferometry — used to characterize bifocal, trifocal, EDOF and spiral IOLs and to relate *in vitro* figures of merit to clinical visual acuity.

IOL power calculation. Co-conceptor of **PEARL–DGS**, the open-source machine-learning thick-lens formula deployed on the ESCRS website and embedded in selected biometers and topographers. Designer of the **GATINEL formula** (*Gaussian Adaptive Thick-Lens IOL Navigation & Error Landscaping*), an adaptive thick-lens IOL power formula with error-landscape modelling, awarded the 2026 ESCRS Best Paper Award. He is also developing **GRACE** (*Gatinel Risk-Aware Calculation Engine*), which couples IOL power prediction with individualized refractive-uncertainty estimation to provide a patient-specific preoperative risk profile. Its analytical foundation — closed-form sensitivities and biometric uncertainty budgeting — was published in the *Journal of the Optical Society of America A* (2026; PMID: 42268199). Founder of **AIOLsci**, he additionally develops patient-specific pseudophakic optical simulation: predicting the behaviour of a specific IOL in a specific eye rather than ranking lenses from population averages.

Cornea, keratoconus and refractive surgery. Author of mathematical models of excimer ablation, corneal asphericity and effective optical zones (including the **READ** presbyopia algorithm implemented on the Alcon WaveLight EX500), of the **SCORE Analyzer** for subclinical keratoconus detection (Orbscan, then OPD-Scan, now the Heidelberg ANTERION AS-OCT), of the *percent volume altered* ectasia risk metric, and of the **Gatinel–Malet (LD/HD) polynomials**, an alternative to Zernike decomposition for ocular wavefront analysis. More recently, developer of **vergence-based wavefront expansions**: complete sets of orthogonal functions defined directly in *diopters* rather than in microns of optical path difference, so that each coefficient carries an immediate refractive meaning — with the associated clinical metrics and visualization tools that make wavefront maps directly interpretable at the slit lamp and applicable to multifocality, IOL decentration and refractive outcome analysis. Originator of the "*no rub, no cone*" hypothesis on the causal role of eye rubbing in keratoconus, and of the clinical strategy of rubbing cessation to halt progression. Sustained work on deep learning applied to the anterior segment: topography classification and clustering, SS-OCT cataract grading (CATALYZE), corneal edema detection, and machine-learning prediction of subjective refraction.

Recognition and service. **ASCRS Kelman Innovators Award** (2025), **AECOS Joseph Colin Prize** (2025), winner of the **ISRS RefracTech Challenge** (2026) for AIOLsci 2.0, AAO Senior Achievement Award, ISRS Recognition and Lans Distinguished Awards, **22 ASCRS Best Paper of Session awards**, the **2026 ESCRS Best Paper Award** for the GATINEL formula paper, and the **2026 Aleph Award**, the highest honour of the Lebanese Ophthalmological Society, together with repeated inclusion on *The Ophthalmologist Power List* (2018, 2020, 2022–2026). Named lecturer in 2026 alone for the **Jan Worst Medal Lecture** (IIIC), the **6th Haigis Memorial Lecture** (IOL Power Club), the **Lim Lecture** (JSCRS), the **Aleph Award Keynote Lecture**, and two **UNMC Distinguished Lectures** in Omaha. Chair of the ESCRS Digital Health Committee and co-opted member of the ESCRS Council of Management; founding member since 2024 of the **AIER Global Refractive Surgery Advisory Council**; member of the ISRS and AECOS Europe Executive Committees; Editorial Board member of the *Journal of Refractive Surgery*. The curated record comprises **280 scientific references**, including **260 PubMed-indexed publications**, together with five books, >20 book chapters and >500 invited international lectures; *h*-index 49.

Positions

- **Head, Anterior & Refractive Surgery**, Fondation Rothschild, Paris (since 2008).
- **Associate Professor (Ophthalmology)**, Abulcassis International University of Health Sciences, Rabat, Mo-

rocco.

- **AIER Eye Hospital Group**: Academic Consultant, Cataract Association and Cataract Institute (8 May 2024–8 May 2027); Distinguished Academic Consultant, Shenyang AIER Ophthalmology Institute of Precision Medicine (8 May 2024–8 May 2028).
- *Prior:* Assistant Professor, Bichat–Claude Bernard Hospital (Univ. Paris VII, 1999–2008); Ophthalmology Residency (1993–1996).

Education & Credentials

- MD (1991); Ophthalmology Diploma (1996); *Habilitation à Diriger les Recherches* (2005).
- PhD in Applied Mathematics, Université Paris-Saclay (2017).

Licensure & Certifications

- Diplomate in Medicine (MD), 1991.
- Diplomate in Ophthalmology, 1996.
- *Habilitation à Diriger les Recherches* (HDR, Director of Research), 2005.
- PhD in Applied Mathematics (Université Paris-Saclay), 2017.

Clinical Activity (personal volumes)

Program leadership: head of a high-volume, outcomes-driven, hospital-based anterior segment and refractive surgery service. >1,300 corneal laser refractive procedures/year; >400 anterior segment/cataract surgeries/year.

Honors, Awards & Distinctions (selected)

- **ISRS RefracTech Challenge — Winner** (International Society of Refractive Surgery, 2026), awarded jointly with Dr B. Stern for the project **AIOLsci 2.0**, recognized as an original, first-of-its-kind solution for patient-specific IOL performance simulation; announced at the ISRS Annual Meeting, Taiwan, July 2026.
- **Aleph Award** — highest honour of the Lebanese Ophthalmological Society, with the **Aleph Award Keynote Lecture** (32nd Annual Meeting, Beirut, 25 September 2026).
- **UNMC Distinguished Lecture Series** — Stanley M. Truhlsen Eye Institute, Omaha, Nebraska, 7 October 2026: *"Getting IOL Power Right in 2025"* and *"Premium IOLs Under the Microscope"*.
- **Jan Worst Medal Lecture** — International Intra-Ocular Implant Club (IIIC), Washington, DC, 12 April 2026.
- **6th Haigis Memorial Lecture** — IOL Power Club scientific session (2026).
- **Lim Lecture** — 41st Annual Meeting of the Japanese Society of Cataract and Refractive Surgery (JSCRS), Tokyo, June 2026: *"From IOL power to IOL optical behavior prediction"*.
- **Leonardo da Vinci Medal Lecture** — World Keratoconus Congress (2026).
- ASCRS **Kelman Innovators Award** (2025); AECOS **Joseph Colin Prize** (2025).
- AAO **Senior Achievement Award** (2014); ISRS **Recognition Award** (2016); **Lans Distinguished Award** (AAO/ISRS).
- **Bruce Jackson Lecture Award** (Canadian Ophthalmological Society, 2017).
- **Whitney Sampson Lecture Award** (Eye & Contact Lens Association, 2022).
- **Prix de l'Oeil** (Fondation de France, 2022).
- Repeated inclusion on *The Ophthalmologist* **Power List** (2018, 2020, 2022–2026).
- **Knight of the Order of the Crown** (Kingdom of Belgium, 2015).
- **Ridley Lecture** (Congress of German Ophthalmic Surgery – DOC, 2024).
- 22 **Best Paper of Session** awards (ASCRS).
- **2026 ESCRS Best Paper Award** for *Gaussian Adaptive Thick-Lens IOL Navigation & Error Landscaping (GATINEL)* (London, 14 September 2026).

Editorial Boards

- *Journal of Refractive Surgery* (Editorial Board).
- *International Journal of Keratoconus and Ectatic Corneal Diseases* (Editorial Board).

Professional Societies & Committee Service

- ISRS (International Society of Refractive Surgery) — Executive Committee.
- ESCRS — **Chair, Digital Health Committee**; **Co-opted Member, Council of Management**; Research Committee.
- AECOS Europe (American-European Congress of Ophthalmic Surgery) — Executive Committee.

- **AIER Eye Hospital Group** — Founding Member, **AIER Global Refractive Surgery Advisory Council** (since 2024).
- **IOL Power Club** — Member.
- **International Intra-Ocular Implant Club (IIIC)** — Member.
- SAFIR (French Refractive and IOL Surgery Society) — Board Member.
- French Society of Ophthalmology; AAO; ASCRS; ARVO.

Productized Innovations (clinical adoption)

- **FineVision** trifocal diffractive IOL — *U.S. FDA approval: September 2025.*
- **READ** presbyopia laser algorithm — implemented on **Alcon WaveLight EX500** in selected markets.
- **SCORE Analyzer** for corneal topography — initially on Orbscan; currently on **Heidelberg Engineering ANTERION** (AS–OCT).
- **AIOLsci** (`aiolsci.com`) — **a first of its kind**: the first platform allowing surgeons to *simulate the optical performance of a given intraocular lens in a given eye* before implantation, by combining measured IOL wavefronts (interferometric metrology) with the patient's own biometric and aberrometric data ("Advanced Optics For A Perfect IOL Fit"). This original approach — moving IOL selection from empirical, population-based comparison to patient-specific optical simulation — has no equivalent among existing planning tools. Co-developed with Dr B. Stern; winner of the **ISRS RefracTech Challenge 2026** (project AIOLsci 2.0).
- **PEARL–DGS** IOL power calculation formula — open-source, machine-learning thick-lens formula; deployed on the ESCRS website and embedded in selected biometers/topographers.
- **GATINEL formula** (*Gaussian Adaptive Thick-Lens IOL Navigation & Error Landscaping*) — adaptive thick-lens IOL power formula with error-landscape modelling; **2026 ESCRS Best Paper Award**.
- **GRACE** (*Gatinel Risk-Aware Calculation Engine*) — an IOL power calculation engine coupling point prediction with individualized refractive-uncertainty estimation, designed to provide a patient-specific preoperative risk profile. Analytical foundation published in *JOSA A* in 2026 (doi: 10.1364/JOSAA.591472; PMID: 42268199).

Research Interests & Ongoing Activities

- IOL optical design and analysis (designer of the first trifocal diffractive IOL); IOL power calculation (co-conceptor, PEARL–DGS).
- Mathematical modeling of laser refractive surgery (ablation profiles), ocular aberrometry (LD–HD polynomials, vergence-based orthogonal expansions in diopters), and physiological optics.
- AI applications in anterior segment pathology: SS-OCT cataract grading, edema detection, keratoconus classification and risk analytics.
- Corneal topography/tomography, subclinical keratoconus detection, and corneal biomechanics.
- Optical quality assessment of intraocular lenses and laser treatments; characterization and bench-to-clinic translation.
- Design of multifocal IOLs and presbyopia laser corrections; personalized ablation profiles (READ).
- **GRACE – Gatinel Risk-Aware Calculation Engine**, Fondation Rothschild Hospital (ongoing, since 2026): development and validation of a next-generation IOL power engine combining point prediction, analytical uncertainty propagation and an individualized refractive-risk profile, with planned EMR integration.
- **AIOLsci** platform: bench-to-clinic translation of interferometric IOL metrology (Mach–Zehnder) into patient-specific simulation of pseudophakic optical quality — an original, first-in-class approach to preoperative IOL selection.
- Analytical propagation of biometric uncertainty in IOL power calculation: closed-form sensitivities, variance propagation and Monte Carlo prediction intervals (patent applications filed 2025–2026).

Patents (by family; representative publications)

1. **Method for optimizing formulas for calculating intraocular lens power**
   Representative: US 2025/0017722 A1 (application, 2025). Assignee: Fondation Adolphe de Rothschild. Co-inventor: G. Debellemanière.
2. **Trifocal intraocular lens with extended range of vision and correction of longitudinal chromatic aberration**
   Representative: US 11,129,707 B2 (2021); WO 2017/025624 A1; EP 3130314 A1. Assignee: PhysIOL SA. Co-inventors: C. Pagnoulle, S. Redzovic, L. Voisin, J.-J. Loicq.
3. **Intraocular lens**
   Representative: US 8,636,796 B2 (2014); EP 2503962 B1; WO 2011/092169 A1. Assignee: PhysIOL SA. Co-inventors: Y. Houbrechts, C. Pagnoulle.
4. **Apparatus and method for analyzing ocular data**
   Representative: EP 2594192 B1 (2020). Assignee: Technolas Perfect Vision GmbH. Co-inventors: A. Saad, G.

Youssefi, H. Zhang.

5. **Ocular wavefront-correction profiling**
   Representative: US 7,331,668 B2 (2008); US 7,341,345 B2 (2008); US 7,901,076 B2 (2011); US 8,267,515 B2 (2012); EP 1786312 B1; WO 2006/014624. Assignee: Massachusetts Eye and Ear Infirmary. Co-inventors: D. T. Azar, J. Malet.
6. **Method for modelling an intraocular lens and intraocular lens**
   Representative: EP 2177179 B1; US 2010/0094604 A1. Assignee: Carl Zeiss Meditec France SAS. Co-inventors: M. Gerlach, J. Buchheister.
7. **Optical test lenses for the correction of third- and fourth-order aberrations (coma, trefoil, spherical aberration)**
   Representative: FR 2868170 A1 (2005). Sole inventor.
8. **Sensitivity-based uncertainty propagation for individualized prediction intervals in IOL power calculation**
   European patent application filed with the EPO in April 2026 (agent reference PAT-22569-EP00), with a second, broader application filed in July 2026; publication numbers pending.

AI Projects & Publications (selected)

- **2025 — CATALYZE (SS-OCT, deep learning for cataract grading):** Panthier C, Zéboulon P, Rouger H, Bijon J, **Gatinel D**. *J Cataract Refract Surg.* 51(3):222–228.
- **2024 — Deep learning for total corneal astigmatism (IOL planning):** Wallerstein A, Fink J, Shah C, **Gatinel D**, et al. *J Clin Med.* 13(18):5617.
- **2024 — Eye-rubbing detection via smartwatch (machine learning):** Elahi S, Mery T, Panthier C, Saad A, **Gatinel D**, et al. *Transl Vis Sci Technol.* 13(9):1.
- **2023 — DL to estimate RGP base curve (keratoconus fitting):** Risser G, Mechleb N, Muselier A, **Gatinel D**, Zéboulon P. *Cont Lens Anterior Eye.* 46(6):102063.
- **2021 — DL visualization of corneal edema on OCT:** Zéboulon P, Ghazal W, **Gatinel D**. *Cornea.* 40(10):1267–1275.
- **2020 — Unsupervised clustering of corneal topography:** Zéboulon P, Debellemanière G, **Gatinel D**. *Sci Rep.* 10(1):16973.
- **2020 — CNN classification of corneal topography raw data:** Zéboulon P, Debellemanière G, Bouvet M, **Gatinel D**. *Am J Ophthalmol.* 219:33–39.
- **2020 — AI to predict subjective refraction (novel polynomials):** Rampat R, Debellemanière G, Malet J, **Gatinel D**. *Sci Rep.* 10(1):8565.
- *(Review)* **2024 — AI applications in cataract & refractive surgery:** Rampat R, Debellemanière G, **Gatinel D**, Ting DSJ. *Curr Opin Ophthalmol.* 35(6):480–486.

Key Concepts & Tools Introduced

- **Keratoconus / ectasia detection.** *SCORE Analyzer* (software) built on Placido- and tomography-derived indices; **initially implemented on the Orbscan (Bausch & Lomb), then on the OPD-Scan (NIDEK), and now implemented on the ANTERION anterior-segment OCT (Heidelberg Engineering).**
- **IOL optics & IOL power calculation.** Monte Carlo simulations for thick-lens IOL power (*Acta Ophthalmol*, 2024); linking predicted vs. achieved refraction to IOL power (*JCRS*, 2025); co-conceptor of the open-source ML thick-lens formula **PEARL–DGS — currently deployed on the ESCRS website, with ASCRS website integration underway, and embedded in selected biometers (Heidelberg Engineering ANTERION; CSO MS–39; and a MediWorks DEA520 topographer–biometer).** Corneal power estimation and keratometric index refinement (*J Refract Surg*, 2023; *Graefes Arch Clin Exp Ophthalmol*, 2024; *Ophthalmic Physiol Opt*, 2025).
- **Wavefront representation in diopters (vergence functions).** Introduction of *vergence-based ocular wavefront expansions*: orthogonal series whose coefficients are expressed in **diopters** instead of microns of wavefront error, together with the corresponding clinical metrics and visualization tools (*J Opt Soc Am A*, 2025). Because the expansion is performed in vergence (dioptric) space, low- and high-order terms are read on the same clinically meaningful scale as sphere and cylinder, which greatly facilitates interpretation of the wavefront — in particular for multifocal optics, IOL decentration and the analysis of refractive outcomes; presented as *"The Wavefront in Diopters"*. Complementary to the earlier **Gatinel–Malet (LD/HD) polynomial** decomposition (*J Opt Soc Am A*, 2018; *Photonics*, 2024, closed-form conversion to and from the Zernike basis) and applied to closed-form sensitivity analysis in IOL power calculation (*J Opt Soc Am A*, 2026).
- **Corneal ablation physics.** Theoretical and experimental models for effective optical zones: laser-induced increased depth-of-field profiles (*J Refract Surg*, 2021) and control of prolateness to manage spherical aberration in hyperopic LASIK (*JCRS*, 2024), anchored in earlier elevation/topography modeling (*Cornea*, 2011).

Books

- Azar DT, **Gatinel D**, Ghanem R, Taneri S. *Refractive Surgery*, 3rd ed. Elsevier, 2019.
- **Gatinel D**. *Topographie cornéenne*, 2nd ed. Elsevier, 2014. (French)
- **Gatinel D**. *Topographie cornéenne*. Elsevier, 2011. (French)
- Azar DT, **Gatinel D**. *Refractive Surgery*, 2nd ed. Mosby–Elsevier, 2006.
- **Gatinel D**, Hoang-Xuan T. *Le LASIK: de la théorie à la pratique*. Elsevier, 2003. (French)

Book Chapters

- >20 chapters in English-language ophthalmology and refractive surgery textbooks.

Lectures & Teaching

- **1,126 documented scientific contributions delivered since 1995**, including 1,029 oral or equivalent presentations, 708 invited contributions, 836 international contributions, 65 posters, and 32 scientific films or videos. Detailed online record.
- **Named & Keynote Lectures (documented): Jan Worst Medal Lecture** (International Intra-Ocular Implant Club — IIIC, Washington, DC, 12 April 2026); **6th Haigis Memorial Lecture** (IOL Power Club scientific session, 2026); **Lim Lecture** (41st Annual Meeting of the JSCRS, Tokyo, June 2026 — *"From IOL power to IOL optical behavior prediction"*); **Leonardo da Vinci Medal Lecture** (World Keratoconus Congress, 2026); **Aleph Award Keynote Lecture** (32nd Annual Meeting of the Lebanese Ophthalmological Society, Beirut, 25 September 2026); two **UNMC Distinguished Lectures** (Stanley M. Truhlsen Eye Institute, Omaha, 7 October 2026 — *"Getting IOL Power Right in 2025"* and *"Premium IOLs Under the Microscope"*); **Ridley Lecture** (Congress of German Ophthalmic Surgery – DOC, 2024); Whitney Sampson Lecture Award (Eye & Contact Lens Association, 2022); Bruce Jackson Lecture Award (Canadian Ophthalmology Society, 2017).
- **Invited faculty (2026, selected):** ISRS Annual Meeting (Taiwan); JSCRS (Tokyo); Alcon speaker events in Australia; AIER 5th International Refractive Surgery Symposium in Chengdu (23 May), presenting *"The Wavefront in Diopters: A New Lens on Multifocality, Decentration, and Refractive Outcomes"*; ESCRS week in London, with 15 scientific presentations from 10 to 14 September, including the GATINEL formula paper, recipient of the ESCRS Best Paper Award; 32nd Annual Meeting of the Lebanese Ophthalmological Society in Beirut (25 September), presenting *"Point Counter Point: LASIK is the Best Treatment for High Myopes"*, followed by the *Aleph Award Keynote Lecture* and receipt of the Aleph Award; invited Journal Club presentation on *"FineVision Multifocal Lens"* (Omaha, 6 October), followed by two **UNMC Distinguished Lectures** at the Stanley M. Truhlsen Eye Institute (Omaha, 7 October), *"Getting IOL Power Right in 2025"* and *"Premium IOLs Under the Microscope"*; invited international panellist at **Eyecelerator @ AAO** in New Orleans (8 October), *"Mapping the Next Frontiers in Anterior Segment Care: Medical, Surgical & AI"*; two invited presentations at **ARI 2026**, online from Alicante (23–24 October), on LD/HD wavefront decomposition and real-world EDOF IOL performance.
- **Education & Teaching:** Regular invited faculty and speaker at ASCRS and ESCRS instructional courses on IOL power calculation, optical design and refractive surgery.

Websites & Outreach

- www.gatinel.com (refractive surgery resource in French; est. 2006, >2,000 unique visits/day).
- www.aiolsci.com (**AIOLsci** — first-of-its-kind platform for advanced optical analysis and patient-specific simulation of IOL performance; ISRS RefracTech Challenge 2026 winner).
- www.iolsolver.com (IOL power calculation using PEARL–DGS formula, thousands of predictions/day).
- www.defeatkeratoconus.com (patient-facing resource on keratoconus management and the role of eye rubbing; co-created).
- Public engagement: TV/radio features in France on laser vision correction, cataracts, and presbyopia.

Languages

French (native); English (fluent).

Bibliometrics (Google Scholar)

Citations: **9,243** (since 2021: 4,810) h-index: **49** (since 2021: 34) i10-index: **154** (since 2021: 116). *Profile verified on 3 November 2026.*

Publications (**280** curated scientific references)

Bibliography updated on 11 November 2026: 280 scientific references, including 260 PubMed-indexed publications and 20 additional references. Two newly indexed publications are listed in the bibliography update at the end. Preprints, patents, chapters and congress abstracts are excluded.

278. Gatinel D, Debellemanière G, Saad A, Malet J. Postoperative-Only Estimation of Implanted Intraocular Lens Power Using a Closed-Form Thick-Lens Model With Patient-Specific Predictive Intervals. Transl Vis Sci Technol. 2026 Nov 2;15(11):2. doi: 10.1167/tvst.15.11.2. PMID: 42969573.

277. Gatinel D, Debellemanière G, Gauvin M, Wallerstein A, Malet J. Individualized prediction intervals for IOL power calculation: variance propagation, Monte Carlo verification, and clinical validation. J Opt Soc Am A Opt Image Sci Vis. 2026 Nov 1;43(11):1750-1765. doi: 10.1364/JOSAA.610735. Epub 2026 Sep 16. PMID: 42962251.

276. Koh S, Inoue R, Gatinel D, Nishida K. Beyond Eye Rubbing: Mechanical Ocular Stimulation Is Highly Prevalent in Keratoconus. Eye Contact Lens. 2026 Nov 1;52(11):460-465. doi: 10.1097/ICL.0000000000001311. Epub 2026 Sep 29. PMID: 42809759.

275. Gatinel D, Malet J. Ocular wavefront vergence coefficients and peak-to-valley normalised metrics in myopic eyes 2013–2025. Sci Data. 2026 Oct 15. doi: 10.1038/s41597-026-08430-6.

274. Flamant R, Grise-Dulac A, Guillon-Rolf R, Moyal L, Rousseau A, Gatinel D. Management of bleb leak in filtration surgeries and novel use of lyophilized amniotic membrane – A multi-center case-series. J Fr Ophtalmol. 2026 Oct 1;49(9):104999. doi: 10.1016/j.jfo.2026.104999. PMID: 42822381.

273. Bustamante-Arias A, Rosas-Apraez A, Restrepo CA, Lizarazo MI, Tawse-Smith D, Carreño NI, Holguin LD, Gatinel D, Romero M, Rocha LG, Diaz-Cely A. Evidence-Based Clinical Practice Guideline for Diagnosis, Treatment, and Follow-Up of Keratoconus Patients. Clin Ophthalmol. 2026;20:612713. doi: 10.2147/OPTH.S612713. Epub 2026 Sep 15. PMID: 42763659.

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270. Partouche S, Gatinel D. First Report of Circular Rainbow Glare After Femtosecond Laser-Assisted LASIK. J Refract Surg. 2026 Jul;42(7):e742-e744. doi: 10.3928/1081597X-20260505-02. PMID: 42429249.

269. Salah-Mabed I, Péan V, Gatinel D. Evaluation of a New Algorithm-Based Approach in Subjective Refraction. J Ophthalmol. 2026 May 15;2026:5572620. doi: 10.1155/joph/5572620. PMID: 42148249; PMCID: PMC13177832.

268. Gatinel D, Malet J. IOL power calculation in cataract surgery: closed-form sensitivities to biometric uncertainties. J Opt Soc Am A Opt Image Sci Vis. 2026 May 1;43(5):777-791. doi: 10.1364/JOSAA.591472. PMID: 42268199.

267. Mechleb N, Chacra L, Boujnah Y, Gatinel D, Mouchel R, Saad A. Anterior capsule breach during implantable collamer lens implantation: A four-year follow-up case report. Indian J Ophthalmol Case Rep. 2026;6(2):449–452. doi: 10.4103/ijo.ijo_3135_25.

266. Stern B, Gatinel D. Comment on: Evidence-based functional classification of simultaneous vision intraocular lenses: seeking a global consensus by the ESCRS Functional Vision Working Group. J Cataract Refract Surg. 2026 May 1;52(5):523. doi: 10.1097/j.jcrs.0000000000001945. PMID: 41861376.

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intraocular lenses (IOLs) by the Academy of Asia-Pacific Professors of Ophthalmology (AAPPO). Asia Pac J Ophthalmol (Phila). 2026 Jan-Feb;15(1):100274. doi: 10.1016/j.apjo.2025.100274. Epub 2025 Dec 17. PMID: 41419160.

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Two newly indexed publications supplement the preceding bibliography. The CV now comprises 280 scientific references, including 260 PubMed-indexed publications and 20 additional references.

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