

## Curriculum Vitae | Short version

Dr. Thomas Schielke studied architecture at the University of Technology in Darmstadt, Germany. During the course of his studies he worked as a research assistant at the department for Building Design and Lighting Technology. His doctoral thesis analysed architectural lighting for brand communication.

Thomas Schielke works as a lighting design trainer at the lighting manufacturer ERCO. He was a trainer for lighting seminars and workshops at DIAL from 2014 till 2015. Before that, he was in charge of the didactic and communications division at ERCO from 2001 till 2014 where he designed an extensive online guide for architectural lighting, led lighting workshops and published international articles on lighting design and technology. He is co-author of the books "Light Perspectives - between culture and technology" and "SuperLux. Smart Light Art, Design & Architecture for Cities".

Additionally, he has taught lighting design at different universities and was invited for lectures at institutions like Harvard GSD, MIT, Columbia GSAPP, Tongji University and ETHZ. His doctoral thesis at the University of Technology in Darmstadt, Germany, has analysed architectural lighting. His research interests focus on qualitative lighting design. Thereby, he examines the way in which light can be used to interpret architecture and to express a semantic quality. Further, he explores the development of contemporary light patterns, technologies and visualisation techniques to detect historical influences and to critically discuss the progress of light and architecture. His regular column "Light Matters" on ArchDaily reveals various perspectives of architectural lighting.

### Education

2007-2014	Doctoral thesis about architectural lighting at Darmstadt University of Technology
1994-2001	Architectural studies at Darmstadt University of Technology
1999-2000	Student research assistant: Building Design and Lighting Technology
1998-1999	Student research assistant: Building Design and Technology

### Professional experience

since 2021	Lighting design trainer. Market Development Service. ERCO. Lüdenscheid, Germany
2016-2021	Didactic communication, Marketing. ERCO. Lüdenscheid, Germany
2014-2015	Trainer lighting design and technology. DIAL. Lüdenscheid, Germany
2001-2014	Didactic communication, Marketing. ERCO. Lüdenscheid, Germany
since 2008	Invited lectures about architecture at international universities: Harvard, MIT, Columbia, Princeton, Cornell, Cooper Union, Tongji, ETHZ, EPFL
2006-2010	Teaching assistant for architectural lighting at different German universities: Wuppertal, Bochum, Cologne, Wismar, Siegen

### Selected publications

2018	The Language of Lighting: Applying Semiotics in the Evaluation of Lighting Design. In: Leukos. DOI: 10.1080/15502724.2018.1518715, accepted for publication
2015	D. Jackson (ed.), M.-A. Kyriakou, V. Petresin, T. Schielke, P. Weibel: SuperLux. Smart Light Art, Design & Architecture for Cities. London 2015. Thames & Hudson.
2014	M. Leudesdorff, T. Schielke: Impact of lighting design on brand image for fashion retail stores. In: Lighting Research and Technology.
2010	Light and corporate identity: Using lighting for brand communication. In: Lighting Research and Technology. Sep, 42 (3), p.285-295.
2009	M. Krautter, T. Schielke: Light perspectives between culture and technology. Lüdenscheid. ERCO.

## Curriculum vitae

Dr.-Ing. Thomas Schielke, Architect

### Education

- 2007-2014 Doctoral thesis about architectural lighting at Darmstadt University of Technology.  
Corporate lighting: Methods and techniques of architectural lighting for brand communication
- 1994-2001 Architectural studies at Darmstadt University of Technology
- 1999-2000 Student research assistant  
Department for Building Design and Lighting Technology, Dr. Harald Hofmann
- 1998-1999 Student research assistant  
Department for Building Design and Technology, Prof. Ing. Karl-Heinz Petzinka
- 1979-1992 School, general qualification for university entrance

### Continuing professional education at academic institutions

- 2020 MITx: Sustainable Building Design. Course with C. Reinhart.  
Massachusetts Institute of Technology through edX
- 2017 GSD1x: Architectural Imagination. Course with K. Michael Hays. HarvardX,  
Harvard University through edX

### Professional experience

- since 2021 ERCO, Lüdenscheid, Germany  
- training lighting design
- 2016-2021 ERCO, Lüdenscheid, Germany  
- didactic communication for lighting design and lighting technology  
- writing articles for magazines about lighting design  
- leading lighting seminars  
- developing educational and project videos  
- working on product information for database publishing  
- managing social media  
- creating advertising campaigns  
- responsible for online luminaire search: [www.erco.com/lightfinder](http://www.erco.com/lightfinder)  
- coordinating worldwide project photography
- 2014-2015 DIAL, Lüdenscheid, Germany  
- leading lighting seminars  
- designing lighting projects  
- working on lighting simulation  
- developing and leading e-learning courses

### Member

- since 2004 Chamber of architects North Rhine-Westphalia

- 2001-2014 ERCO, Lüdenscheid, Germany
- didactic communication for lighting design and lighting technology
  - responsible for extensive online light guide: [www.erco.com/guide](http://www.erco.com/guide)
  - leading lighting seminars with about 400 students per year since 2006
  - organising and leading international lighting educator workshop
  - writing articles for books and magazines about lighting design
  - co-author of the book: Light perspectives between culture and technology
  - designing a light lab for lighting education
  - developing video tutorials
  - working on product information for database publishing
  - managing social media
  - consultant for lighting design
  - junior management programme

### **Awards**

- 2015 Science award. EHI trust. Nomination: Best doctoral thesis
- 2012 DDC Good Design Award, Germany: Photo Film. Lighting with LEDs
- 2011 Design Award of the Federal Republic of Germany: Nomination. Light Perspectives
- 2010 Good Design Award, USA: Graphics. Light Perspectives
- 2010 if-Communication Design Award: Printed Media. Light Perspectives
- 2010 BCP Best of corporate publishing, Germany. Light Perspectives
- 2010 DDC Good Design Award, Germany: Graphic Fine Arts. Light Perspectives
- 2008 Good Design Award, USA: Lighting. Internet tutorial
- 2008 Design Award of the Federal Republic of Germany: Nomination. Internet tutorial
- 2007 Professional Lighting Design Recognition. Richard Kelly Exhibition Europe
- 2007 if-Communication Design Award: Digital Media. Internet tutorial
- 2004 if-Communication Design Award: Crossmedia. Light Scout and ERCO

### **Grants**

- 2008 IALD Education Trust, USA
- 2000 Scholarship for conference Licht 2000, Goslar. Deutsche Lichttechnische Gesellschaft

### **Exhibitions**

- 2016 SuperLux: Timeline of luminous structures – Smart Light Cities. Book Launch event in collaboration with the Museum of Architecture (MoA). London
- 2016 SuperLux: Timeline of luminous structures – Smart Light Cities. International Year of Light Film Festival. Film was part of closing ceremony of United Nations (UNESCO) International Year of Light 2015. Mérida, Yucatán, Mexico
- 2015 Timeline of luminous structures. SuperLux, Smart Light Cities, [www.superlux.org](http://www.superlux.org). Film was part of United Nations (UNESCO) International Year of Light 2015. Customs House, Sydney
- 2013 Spectral beam. One beam of light. Photo competition. Institute of Contemporary Arts, London
- 2012 Media facades: When buildings start to twitter. Materia Xpert Series: Media Facades. Materia Inspiration Centre, Amsterdam
- 2000 Music room, sculpture. sichten mm, annual exhibition of Faculty of Architecture at Darmstadt University of Technology. Centralstation, Darmstadt
- 1999 Music room, sculpture. Inter.regno exhibition at department of sculptural art. Faculty of Architecture at Darmstadt University of Technology.

### **Conference Committee**

- 2016 International lighting symposium: SuperLux. Smart Light Art, Design & Architecture for Cities. Collaboration with Davina Jackson, Lutz Harrer. Technical University of Munich

## **Publications**

### **Books**

- D. Jackson (ed.), M.-A. Kyriakou, V. Petresin, T. Schielke, P. Weibel: SuperLux. Smart Light Art, Design & Architecture for Cities. London 2015. Thames & Hudson.  
Reviewed in: Journal of Architectural Education.
- M. Krautter, T. Schielke: Light Perspectives between culture and technology. Lüdenscheid 2009. ERCO.  
Reviewed in: Lighting Research and Technology, Architectural lighting, Flare, Architektur aktuell, Raumbrand, Design Report.  
Awards: Good Design Award - USA, if-communication, Best of corporate Publishing, Good Design Award – Germany.

### **Chapters in books**

- Dynamic design with light: Media facades. In: Michael Schumacher, Michael-Marcus Vogt, Luis Arturo Cordón Krumme und Luis Arturo Cordón Krumme: New Move. Berlin, Boston 2020, p.90-93. Birkhäuser.
- Enhancing orientation and atmosphere with light for circulation areas. In: Designing circulation areas. Munich, Planned for summer 2013. Detail Institute for international Architecture-Documentation.
- Light and light constructions. Licht und leichte Konstruktionen. In: Konstruktion und Gestalt - leichte Konstruktionen. Aachen 2009, p.171-186. Druck & Verlagshaus Mainz.
- Proper light for presentations. In: Exhibitions and Displays. Munich 2009, p.108-111. Detail Institute for international Architecture-Documentation.
- Lighting Guide. In: Bright - Architectural illumination and light installation. Amsterdam 2008, p.316-349. Frame Publishers.
- Learning from architectural lighting for automotive interior lighting. In: T.Q. Khanh: 7th International Symposium on Automotive Lighting. München 2007, p.371-375. Herbert Utz Verlag.
- Light concepts for facades. Lichtkonzepte für Fassaden. mit Harald Hofmann: Licht - Physikalische Grundlagen. Hrsg.: Alexander Schmidt, Martin Töllner: StadtLicht - Lichtkonzepte für die Stadtgestaltung. Stuttgart 2006, p. 137-143. Fraunhofer IRB Verlag.
- Harald Hofmann, Thomas Schielke: Urban Squares – Light and Outdoor design. Stadtplätze - Licht und Außenraumgestaltung. In: Jürgen Knirsch: Stadtplätze. Leinfelden-Echterdingen 2004, p.89-101. Verlagsanstalt Alexander Koch.

### **Doctoral thesis**

- Corporate lighting: Methods and techniques of architectural lighting for brand communication. - Darmstadt, Techn. Univ., Diss., 2014. - [online]  
<http://tuprints.ulb.tu-darmstadt.de/id/eprint/3466>

### **Peer-reviewed journal articles**

- Krzysztof Wodiczko: monuments, projections and protest. An interview with Thomas Schielke. In Sculpture Journal, 2021, 31 (3). DOI: 10.3828/sj.2022.31.3.08
- Interpreting Art with Light: Museum Lighting between Objectivity and Hyperrealism. In: Leukos, 2020, 16 (1), p. 7-24. DOI: 10.1080/15502724.2018.1530123
- The Language of Lighting: Applying Semiotics in the Evaluation of Lighting Design. In: Leukos. 2019, 15 (2-3), p. 227-248. DOI: 10.1080/15502724.2018.1518715
- Interpreting art with light: museum lighting between objectivity and hyperrealism. In: Leukos.2019. DOI: 10.1080/15502724.2018.1530123

- S. Zielke, T. Schielke: Effects of Illumination on Store Perception and Shopping Intention: Shedding Light on Conflicting Theories. *Marketing ZFP*. 2016, 38 (3), p.163-178.
- Validity of simulations for lighting and brand image evaluation. *Lighting Research and Technology*. 2015, prepublished June 4. DOI: 10.1177/1477153515589116
- Influence of Lighting Design on Marketing Communication. *Leukos*. 2015, 11 (3), p.109-124. DOI:10.1080/15502724.2015.1020949
- M. Leudesdorff, T. Schielke: Impact of lighting design on brand image for fashion retail stores. In: *Lighting Research and Technology*. 2014, 47 (6), p.672-692. DOI: 10.1177/1477153514541831
- Tutorial: Rationale, Concepts, and Techniques for Lighting Vertical Surfaces. In: *Leukos*. 2013, 9 (3), p.223-243. DOI:10.1582/LEUKOS.2013.09.04.001
- Light and corporate identity: Using lighting for brand communication. In: *Lighting Research and Technology*. 2010 Sep, 42 (3), p.285-295. DOI: 10.1177/1477153510369526

### **Peer-reviewed papers at conferences**

- T. Schielke, L. Ma: Media scapes in China. The empire of figures transforms into connected media facades. *Media Architecture Biennale, Amsterdam / Utrecht 2021*
- How Apple strives for the perfect sky and revives cities. *Professional Lighting Design Convention, Rotterdam 2019*
- Urban lighting: The semiotic shift from functionalism to scenography. *City Street 3 at Notre Dame University Louize. Zouk Mosbeh, Lebanon 2018*
- M. Leudesdorff, T. Schielke: Impact of lighting design on brand image. *Experiencing Light 2012. Eindhoven.*
- S. Zielke, T. Schielke: Effects of illumination on store atmosphere, price, and quality perception, and shopping intention. *2012 AMA Winter/Summer Educator's Conference. American Marketing Association. Chicago*
- Luminous walls: From stained glass windows via modernist wallwashing to pixelated planes. *Professional Lighting Design Convention. Madrid 2011*
- S. Zielke, T. Schielke: How store lighting influences store atmosphere, price and quality perceptions and shopping intention. *European Marketing Academy 40th Conference. Ljubljana 2011*
- The aesthetic of luminous ceilings: From the image of heaven to dynamic light. *Professional Lighting Design Convention. Berlin 2009*
- Light and Corporate Identity. Using Lighting for Corporate Communication. *Experiencing Light. Eindhoven 2009*
- M. Görres, T. Schielke: DALI und LED: Komfortable Schnittstellen für farbkompensierte und versionierte LED Leuchten. *14. Symposium Licht + Architektur, p.123-128. Bad Staffelstein 2009*
- Architectural lighting images - influence of visualisation. *Professional Lighting Design Convention. London 2007*
- Learning from Architectural Lighting for Automotive Interior Lighting. *7th International Symposium on Automotive Lighting. Darmstadt 2007*
- DALI - Plug&Play and Software Technology: user-friendly installation, easy operation. *Licht 2006. Bern 2006*

### **Non-peer-reviewed papers at conferences**

- Light for brand communication for fashion retail. *Lux junior. University of Technology Ilmenau 2009*
- Light and light constructions. *Interdisciplinary Symposium "Konstruktion und Gestalt". University of Duisburg-Essen. Gelsenkirchen 2008*

### **Non-peer-reviewed journal articles**

- Nocturnal Communication in the City. In: Most. Moscow, 2021. p.18-40.
- Mit Licht die Kunst interpretieren: Museumsbeleuchtung zwischen Objektivität und Hyperrealismus. In: Restauero. München, 2020. p. 38-51.
- A Dance with the Building and the Sky. In: Lighting Magazine. London, 2020. 52 (1) p. 38-59.
- Branding with light: When change is more important than continuity. In: Arc Magazine. London, 2019. p. 50-51.
- Mit Licht die Kunst interpretieren: Museumsbeleuchtung zwischen Objektivität und Hyperrealismus. In: Museum Aktuell. München, 2019. p. 65-70.
- The nature of concrete. In: Lighting – Illumination in Architecture. London, 2018. p.16-41.
- Flexible Lichtlösungen fürs Büro. In: Highlight. Heidelberg 2018, No. 9-10. p.50-53.
- Dark sky - Less light is more. In: Topos. Munich 2018 No.102, p.36-43. Callwey.
- Lichtästhetik im Büro. In: Design & Elektronik. Haar 2018 No. 2, p.41-48. Weka Fachmedien.
- Interpreting art with light. In: Lighting Design and Application. New York 2018.
- Cubism to clarity. In: Lighting – Illumination in Architecture. London, 2017, Vol 49 (6), p.18-41.
- Für jede Stimmung das richtige Licht. Durch ein Lichtkonzept das Ambiente verbessern. In: Gebäudedigital. Marburg 2017, p. 77-78.
- Kunst mit Licht inszenieren: Vom neutralen White Cube zum theatralischen Auftritt à la Hollywood - Teil 2. In: Luxlumina. Lachen 2017, p. 52-55.
- Kunst mit Licht inszenieren: Vom neutralen White Cube zum theatralischen Auftritt à la Hollywood - Teil 1. In: Luxlumina. Lachen 2017, p. 58-61.
- E. Berkenkemper, T. Schielke: Sichtbeton beleuchten. In: Betonprisma. Erkrath 2017, p.44-45
- Achieving Flexible Lighting in Museums via Exchangeable Lenses and Convenient Controls. In : Papyrus - International Association of Museum Facility Administrators. Bel Air 2017, p.37-40.
- Beleuchtung als Infrastruktur und Element zur Markeninszenierung. In: Highlight. Heidelberg 2016, p.46-49. Hüthig.
- Er design baseret på lysdioder, lux og effektivitet lig med god belysning? In: Lys. Lysaker 2015, p.24-25.
- Urban data as light - From sensor-driven media façades to data communication through visual light. a + u (Architecture + Urbanism). 2014, 530, p.56-61.
- Drei Farben: Weiß: LED-Technologie für die energieeffiziente Beleuchtung. In: Energieberater. Stuttgart 2014 No. 5, p.34-37. Gentner Verlag.
- Urban branding: Media facades and their luminous tweets. In: luxlumina. Clavadel 2012 Sep-Oct, p.54-55. Luxlumina Verlag.
- LED photometrics for projector spotlights. LED projector spotlights in application. In: ERCO Lichtbericht. Gütersloh 2013 No. 96, p.18-19. Mohn Media Mohndruck.
- Efficient LED lens systems for downlights: Technology and application. In: ERCO Lichtbericht. Gütersloh 2012 No. 95, p.20-21. Mohn Media Mohndruck.
- The art of illuminating monuments. In. Insite India. Ahmadabad 2012 No. 12, p16-22. AIM House.
- Double-focus downlights in use. Technology of LED double-focus downlights. In: ERCO Lichtbericht. Gütersloh 2012 No. 94, p.22-23. Mohn Media Mohndruck.
- Iluminación LED: 99 innovaciones en el diseño de luminarias eficientes 2001-2011. In: Lightecture. Barcelona 2012 Jan, p.50-57. Lightecture.
- T. Schielke, M. Weiser: Grammatik des Lichts. Effizient beleuchten und mit Licht inszenieren. In: Hotelbauten Spezial. Berlin 2011. Ernst und Sohn.

A decade of design. In: Mondoarc. Stockport 2011 Dec. No.64, 126-127. Mondiale Publishing.

Wallwashing as perception orientated light. LED wallwasher technology. In: ERCO Lichtbericht. Gütersloh 2011 No. 93, p.22-23. Mohn Media Mohndruck.

Aestheticisation of pixelated ornaments. Media facades and their luminous tweets. In: Singapore Architecture. Singapore 2011, p.164-171. Singapore Institute of Architects.

LED lighting technology with interchangeable spherolit lenses for architectural lighting. In: Lighting India. Bombay 2011 March-April, p.26-29. Chary Publications.

Interchangeable lenses allow for differentiated light distribution in architectural lighting. In: LEDs Magazine. Bristol 2011 June, p.34-36. PennWell Corporation.

Wechsel-Linsen für LED in der Architekturbeleuchtung. In: Elektropraktiker. Berlin 2011 No. 6, p. 508-509. Huss-Medien.

Measuring and evaluating LED luminaires. LED lighting technology in the lx/W analysis. In: ERCO Lichtbericht. Gütersloh 2011 No. 92, p.20-21. Mohn Media Mohndruck.

Effizienz und Szenografie in der Lichtplanung. In: Gebäudedigital. Marburg 2011 No. 5+6, p.31-33. Technik-Dokumentations-Verlag.

Innovative LED-Optoelektronik. In: ET Elektrotechnik. Aarau 2011 Mai, p.64-65. AZ Fachverlage.

Leuchtende Automarken. In: Zeitschrift für Automobilwirtschaft 2011 No. 1, p.35-40. FAW-Verlag Bamberg.

Optimising costs in lighting design: Total cost of ownership of a lighting system. In: Light Design. 2010 No. 43 Sep-Oct, p.72-77. Russia, Moscow

Spotlight and floodlight characteristics in use. Directing the light of LEDs with Spherolit lenses. In: ERCO Lichtbericht. Gütersloh 2008 No. 91, p.20-21. Mohn Media Mohndruck.

White LEDs: producing light. White LEDs and RGBW colour mixing in practice. In: ERCO Lichtbericht. Gütersloh 2008 No. 90, p.22-23. Mohn Media Mohndruck.

Energy efficiency classes for lamps. LED luminaires as an efficient alternative. In: ERCO Lichtbericht. Gütersloh 2008 No. 89, p.22-23. Mohn Media Mohndruck.

Gastlichkeit in bestem Licht - Beleuchtung im Hotel. In: Deutsche BauZeitschrift Spezial. Gütersloh 2009 No. 10, p.20-23. Bauverlag BV.

Lighting design using lumen categories. In: ERCO Lichtbericht. Gütersloh 2009 No. 88, p.30-31. Mohn Media Mohndruck.

Lichtblick für die Kultur - Beleuchtung im Museum. In: Licht Architektur Technik. Gütersloh 2009 No. 1, p.41-43. Bauverlag BV.

Lighting for the retail world. In: Light Design. Moscow 2008 No. 28 Sep-Oct, p.36-43.

Technology disappears - Light appears. In: Lighting India. Bombay 2008 Nov-Dec, p.30-37. Chary Publications.

Lighting control systems with digital inputs. Lighting controls with analogue inputs. In: ERCO Lichtbericht. Gütersloh 2008 No. 87, p.24-25. Mohn Media Mohndruck.

The use of images in architectural lighting. In: ERCO Lichtbericht. Gütersloh 2008 No. 86, p.12-15. Mohn Media Mohndruck.

Colour temperature. Colour rendition. In: ERCO Lichtbericht. Gütersloh 2008 No. 86, p.18-19. Mohn Media Mohndruck.

Light control with Spherolit technology. Flexible design with exchangeable reflectors. In: ERCO Lichtbericht. Gütersloh 2008 No. 85, p.20-21. Mohn Media Mohndruck.

Lamps for the outdoor area. Lighting tasks and lamp types. In: ERCO Lichtbericht. Gütersloh 2008 No. 84, p.20-21. Mohn Media Mohndruck.

Stadtgeschichte ausgeleuchtet - Restaurierung der Ausstellung im Ulmer Schwörhaus. In: Licht Architektur Technik. Gütersloh 2008 No. 1, p.49-50. Bauverlag BV.

Elevators as Spaces Made of Light. In: Elevator world. Mobile USA 2008 July, p.108-111. Elevator world.

Lighting concepts for facades. In: Lighting India. Bombay 2008 July-August, p.42-55. Chary Publications.

Designing with light: Practical planning - Point source pattern. In: Lighting & Design. Bedfordview 2008 No.05, p.26-30. Crown Publications.

Designing with light: Practical planning - Mounting. In: Lighting & Design. Bedfordview 2008 No. 03, p.28-31. Crown Publications.

Designing with light: Practical planning - Luminaire arrangement. In: Lighting & Design. Bedfordview 2008 No. 04, p.26-29. Crown Publications.

Leuchtende Marken. In: archithese. Zürich 2008 No. 3, p.54-59. Verlag Niggli AG.

Sehen, ansehn und gesehen werden. In: Hotel & Technik. Fellbach 2008 No. 2, p.26-28. AT-Fachverlag.

Designing with light: Practical planning - Light distribution. In: Lighting & Design. Bedfordview 2008 No. 02, p.26-29. Crown Publications.

Illuminating monuments. In: Lighting India. Bombay 2008 Jan-Feb, p.60-71. Chary Publications.

Designing with light: Practical planning - Choice of lamps. In: Lighting & Design. Bedfordview 2008 No. 1, p.29-30. Crown Publications.

Outside is inside - Light and Elevators. In: Architectural Lighting. Washington 2007 Nov-Dec, p.69. Hanley Wood.

Energy efficiency with lamp technology. Energy efficiency and visual comfort through intelligent design. In: ERCO Lichtbericht. Gütersloh 2007 No. 83, p.22-23. Mohn Media Mohndruck.

Lighting your way to the top. Lighting concepts for lifts. In: Professional Lighting Design. Gütersloh 2007 Nov-Dec No. 58, p.42-45. Verlag für Innovationen in der Architektur.

Light & Living Space. In: Lighting India. Bombay 2007 Sept-Oct, p.60-65. Chary Publications.

Lighting tools for uniform vertical illumination. In: Lighting India. Bombay 2007 Jul-Aug, p.60-68. Chary Publications.

Light for the retail world. In: Lighting India. Bombay 2007 Jan-Feb, p.60-73. Chary Publications.

Farbkompensation: LED-Technologie für farbkonstante RGB-Farbmischleuchten. In: Licht. München 2007 No. 10. p.842-844. Richard Pflaum Verlag.

Baustoff Licht - Fassadenbeleuchtung. In: Fassadentechnik. Hamburg 2007 No 4, p.30-33. Cubus Medien Verlag.

Colour compensation for LED technology enables colorconstant RGB luminaries. In: LED professional. Dornbirn 2007 June/July, p.17-18. Luger Research - Institute for Innovation and Technology.

Trends in hospitality lighting. In: Lighting India. Bombay 2007 May-June, p.38-53. Chary Publications.

Colour compensation for LED technology enables colorconstant RGB luminaries. In: LEDs Magazine. Bristol 2007 April. PennWell Corporation.

DALI - Plug&Play und Software-Technologie. In: Gebäudedigital. Marburg 2007 Edition Mar-Apr, p.28-31. Technik-Dokumentations-Verlag.

Seeing and perceiving: the effects of perception in the practice of lighting design. The theory of perception. In: ERCO Lichtbericht. Gütersloh 2007 No. 82, p.24-25. Mohn Media Mohndruck.

Illuminating Stadiums. In: Futur Arc. Singapore 2007 first quarter, Vol 4, p.94-98. BCI Asia Construction Information Ltd.

The art of lighting art. In: Lighting India. Bombay 2006 Nov-Dec, p.60-73. Chary Publications.



Colour mixing luminaries: lamps and colour space. Colour compensation: technology for true-colour varychrome LED luminaires. In: ERCO Lichtbericht. Gütersloh 2006 No. 81, p.24-25. Mohn Media Mohndruck.

Ästhetik der Dunkelheit. In: i-Magazin. Korneuburg 2006 No. 8, p.59-61. Team-i Zeitschriftenverlag.

Bright and beautiful - Lighting plays an essential role in ensuring stadia are instantly recognisable. In: Stadia. Dorking 2006 No. 39, p.108-112. Broadcast Publishing.

Digitale Lichtsysteme im zeitgenössischen Wohnbau. In: DBZ Deutsche Bauzeitschrift. Gütersloh 2006. No.1, p.60-62. Bauverlag BV.

The art of garden design. In: Landscape Today. Singapore 2006, p.362-365. Trade Link Media.

Lighting Landscape. In: Landscape Today. Singapore 2006, p.332-335. Trade Link Media.

Lighting concepts for facades. In: Lighting Today. Singapore 2006 No. 2, p.32-37. Trade Link Media.

Beleuchtung von Verkaufsräumen. In: Licht Architektur Technik. Gütersloh 2006 No. 2, p.52-55. Bauverlag BV.

Perspektivwechsel - Garten "Auf dem Mühlberg". In: mein schönes zu hause3. Berlin 2006 No. 4/5, p.134-137. biz Verlag.

Big on sports, bigger on sports stadiums. In: Lighting Today. Singapore 2006 No. 1, p.46-59. Trade Link Media.

"Plug and Play": Commissioning a Light System DALI. Coded DALI Light clients: The technical basis for "Plug and Play". In: ERCO Lichtbericht. Gütersloh 2006 No. 80, p.12-13. Mohn Media Mohndruck.

The iconographic power of stadium lighting. In: Professional Lighting Design. Gütersloh 2006 No. 48, p.44-48. Verlag für Innovationen in der Architektur.

Lighting for Living. In: Lighting Today. Singapore 2005 No. 3., p.52-55. Trade Link Media.

Lighting Landscapes. In: Southeast Asia Building. Singapore Nov-Dec 2005, p.2-5. Trade Link Media.

Auf Lichtfang. Licht in Verkaufsräumen am Beispiel von Bekleidungsgeschäften. In: db deutsche bauzeitung. Leinfelden-Echterdingen 2005 No. 11, p.61-65. Konradin Verlag.

The art of lighting art. In: Architecture China. Hong Kong October 2005. BCI Asia Construction Information Ltd.

Hotel Faena + Universe in Buenos Aires, Argentinien - Kunstlichtdramaturgie in historischen Mauern. In: Baumeister. Munich 2005 B10, p.28-30. Callwey Verlag.

Funkeln wie ein Kristall: Die Glaspypamide des Kunstmuseums Louvre. In: Leuchten pro-in. Bergkirchen Spezialausgabe Sep 2005, p. 14-15. PPV Medien.

Lighting tools for uniform vertical illumination. In: Professional Lighting Design. Gütersloh 2005 No. 43, p.36-39. Verlag für Innovationen in der Architektur.

Lighting technology: metal halide lamps. Metal halide lamps in use. In: ERCO Lichtbericht. Gütersloh 2005 No. 77, p.22-23. Mohn Media Mohndruck.

Illuminating façades: lighting concepts and lighting technology. In: ERCO Lichtbericht. Gütersloh 2005 No. 76, p.16-17. Mohn Media Mohndruck.

Perception-Orientated Lighting Design for Dark Sky. In: Lighting Today. Singapore 2005 No. 1, p.33-35. Trade Link Media.

Licht-Spuren. Reduzieren statt paradieren. In: office. Stuttgart 2004 No. 3, p.70-71. Office Verlag.

Museum Lighting. In: Lighting Today. Singapore 2004 No. 3, p.26-27. Trade Link Media.

Planning process: from the sketch to the detailed designs. From installation to maintenance. In: ERCO Lichtbericht. Gütersloh 2004 No. 75, p.22-23. Mohn Media Mohndruck.

Dark sky versus light pollution. Dark sky in luminaire construction and lighting design. In: ERCO Lichtbericht. Gütersloh 2003 No. 72, p.16-17. Mohn Media Mohndruck.

Light colour and perception. Lighting trees and vegetation.

In: ERCO Lichtbericht. Gütersloh 2003 No. 71, p.20-21. Mohn Media Mohndruck.

The Guide at [www.ercocom.com](http://www.ercocom.com): New ways to impart knowledge. Knowledge "on demand":

The Guide in the lighting design practice. In: ERCO Lichtbericht.

Gütersloh 2003 No. 70, p.22-23. Mohn Media Mohndruck.

LED orientation luminaires - electronically controlled and networked. Adaptive LED luminaire systems in practice. In: ERCO Lichtbericht. Gütersloh 2002 No. 67, p.30-31.

Mohn Media Mohndruck.

Musik-Raum. In: sichten mm. Jahresausstellung Fachbereich Architektur Technische Universität Darmstadt. Hagen 2000, p.84-85. Ardenku-Verlag.

### **Online publications**

How Satellite Images of the Earth at Night Help Us Understand Our World and Make Better Cities. URL: <https://urbannext.net/satellite-images-better-cities/> (Access 27.4.2018)

Light Matters. Regular lighting column on ArchDaily. Since 2013

URL: <http://www.archdaily.com/tag/light-matters> (Access 8.6.2013)

When Light "Cheats". URL: <http://www.metropolismag.com/Point-of-View/July-2013/When-Light-Cheats/> (Access 24.07.2013)

Interview Keith Sonnier

URL: [http://www.youtube.com/playlist?list=PL7alCRs1veWep5i5-xg\\_j-WLzf0PC\\_6AN&feature=view\\_all](http://www.youtube.com/playlist?list=PL7alCRs1veWep5i5-xg_j-WLzf0PC_6AN&feature=view_all) (Access 10.12.2012)

Light spectrum glasses: Looking beyond white light from sunlight to LED.

URL: <http://www.youtube.com/watch?v=IWfMyAOyFbE> (Access 5.10.2011)

Media facades: When buildings start to twitter.

URL: <http://www.youtube.com/watch?v=2uaum8vg60Y> (Access 23.11.2010)

Luminous Walls. URL: <http://www.youtube.com/watch?v=998P2EP6SeA> (Access 8.10.2010)

The aesthetic of luminous ceilings.

URL: <http://www.youtube.com/watch?v=NEPRtjKMI3I> (Access 18.10.2009)

Light Guide. ERCO Light Scout. URL: <http://www.ercocom.com/guide> (Access 31.12.2002)

smartflying. Modular airport. a-matter.com. Online medium for contemporary architecture.

URL: <http://www.a-matter.com/eng/frames.htm?about/di012-01-dip> (Access 01.12.2001)

## Invited lectures

### Lectures international

- 2022 Protests at night. KTH Royal Institute of Technology Stockholm
- 2022 Light Perspectives between Culture and Technology. İstanbul Bilgi Üniversitesi
- 2022 Changing needs in lighting design: From lux levels to systems thinking.  
Solar Decathlon. University of Wuppertal.
- 2022 Office lighting: Combining architecture, activity and atmosphere for  
sustainable lighting solutions. The light conference. Bergen
- 2021 Protests at night. KTH Royal Institute of Technology Stockholm
- 2021 Digital Lighting: From Monologue to Interactive Storytelling.  
International Conference Digital Construction. Vilnius
- 2021 Urban Lighting between Identity and Transformation.  
Eclat Lighting Initiative Conference. Saskatoon
- 2020 Protests at Night: From Candlelight Vigils to Guerilla Projections.  
KTH Royal Institute of Technology Stockholm
- 2020 How Apple strives for the perfect sky and revives cities. LED Forum. Brazil
- 2020 How Apple strives for the perfect sky and revives cities. Euroshop. Düsseldorf
- 2019 How Apple strives for the perfect sky and revives cities.  
Professional Lighting Design Convention. Rotterdam
- 2018 Streetscapes at Night: Lighting between Safety, Identity and Transformation.  
Keynote at City Street 3 at Notre Dame University Louize. Zouk Mosbeh, Lebanon
- 2018 Media facades - When buildings start to twitter. Forward Session. Basel
- 2016 From productivism to scenography: Urban branding. SuperLux Symposium.  
Technical University of Munich
- 2015 Lighting quality between design and technology. Danish Lighting Day. Copenhagen
- 2014 Light for Brand Communication: When Lighting becomes Part of CI.  
IALD Enlighten Europe. Berlin
- 2014 Light for Brand Communication: When Lighting becomes Part of CI. Euroshop. Düsseldorf
- 2013 Brand Lighting: When light becomes part of a corporate identity. IES Annual Conference.  
Huntington Beach, California
- 2013 Optoelectronics for efficient visual comfort. Smart Lighting. Frankfurt
- 2013 Media facades - When buildings start to twitter.  
China Central Academy of Fine Arts. Beijing
- 2013 Luminous walls: From stained glass windows via modernist wallwashing to pixelated planes.  
Shanghai Illuminating Engineering Society. Shanghai
- 2013 Media facades - When buildings start to twitter. Tongji University. Shanghai
- 2013 Light Perspectives between Culture and Technology. Tongji University. Shanghai
- 2013 Luminous materials. Material Xperience, International BouwBeurs 2013. Utrecht
- 2012 LEDs and sustainable lighting: Living between technology and perception.  
Solar Energy and Building Physics Laboratory. EPFL. Lausanne
- 2012 Light and material. ETHZ Swiss Federal Institute of Technology. Zurich
- 2012 LEDs and sustainable lighting: Living between technology and perception.  
Princeton University. Princeton
- 2012 Urban branding: Media facades and their luminous tweets.  
Harvard Graduate School of Design. Cambridge
- 2012 Media facades - When buildings start to twitter. Expo Lighting America. Mexico City
- 2012 Fred Black – Shadow, I like. Pecha Kucha Luminale. Frankfurt
- 2011 Media facades - When buildings start to twitter. 3rd Lighting Solution Conference. Dubai
- 2011 Vertical illumination between efficiency and scenography.  
California Lighting Technology Center. UC Davis. Sacramento

- 2011 Media facades - When buildings start to twitter. Keynote Illuminated City Symposium. Portland State University. Portland
- 2011 Media facades - When buildings start to twitter. MIT Media Lab Massachusetts Institute of Technology. Cambridge
- 2011 Aesthetic of pixelated ornaments - Media facades and their luminous tweets. Feltman Lecture. Cooper Union. New York
- 2011 Interior LED lighting. Pure Village, imm Cologne, international furniture show. Cologne
- 2011 Luminous walls: From stained glass windows via modernist wallwashing to pixelated planes. imm Cologne, international furniture show. Cologne
- 2010 Luminous walls: From stained glass windows via modernist wallwashing to pixelated planes. Columbia University. New York
- 2010 LEDs and sustainability in labs and architecture: Synergy or lighting rivals? MIT - Massachusetts Institute of Technology. Cambridge
- 2010 Light Perspectives between Culture and Technology. Pennsylvania State University. University Park
- 2010 The semiotics of media facades - When buildings start to twitter. Parsons The New School for Design. New York
- 2010 Light for mass communication - Luminous signals from brands to customer. Cornell University. Ithaca
- 2010 Luminous walls: From grazing light via modernist wallwashing to pixelated planes. Cornell University. Ithaca
- 2010 Developing lighting solutions. Symposium Shaping light. Howest - Industrial Design Center. Kortrijk
- 2009 Let there be light! Architectural considerations in lighting design. Stadia Design & Technology. Warsaw
- 2009 Architectural lighting images. University of Technology. Sydney
- 2009 The use of images in architectural lighting. Temasek Design School, Singapore
- 2009 Luminous brands. Enlighten Europe. Conference. London
- 2009 Potentials of LED in architectural lighting. 9th International Flagship Event Intelligent. Automotive Lighting. Frankfurt
- 2008 Architectural lighting images - The history of visualisation techniques: From paintings to animation. University of Technology. Eindhoven
- 2008 Architectural lighting images - influence of visualisation. Instituut Lichtontwerpen. Amsterdam
- 2008 Light - Atmosphere - Space. Light between secret and technology. Manipal University Dubai
- 2008 Principles of architectural lighting adapted to automotive interior lighting. 8th International Flagship Event Intelligent Automotive Lighting. Frankfurt
- 2007 Stadiums as images of light. International Congress for the Design, Construction, Modernization and Management of Sports and Leisure Facilities. Cologne
- 2006 First principles in architectural lighting and how we can use them for automotive interior lighting. International L-LAB Summerschool. Winterberg
- 2005 Designing Atmosphere With Light - Lighting Effects And Illumination Technologies. International CTI Forum Automotive Interior. Wiesbaden

### **Lectures national**

- 2019 Media Facades: From Monologue to Interactive Storytelling. Bau Munich
- 2018 Museum lighting. HAWK Hochschule für angewandte Wissenschaft und Kunst. Hildesheim
- 2018 Licht zwischen Neutralität und Hyperrealismus. International Day of Light. University of Applied Sciences. Düsseldorf
- 2018 Media facades. When buildings start to twitter. Next Summit - Lighting Matters. Frankfurt
- 2017 Light for art: Museum Lighting. University of Wuppertal
- 2016 Light perspectives between culture and technology. University of Wuppertal

- 2015 Luminous walls: From stained glass windows to LED walls.  
Museums of the City of Lüdenscheid
- 2014 Light for brand communication. EHI Retail Conference. Cologne
- 2014 Light perspectives between culture and technology. University of Wuppertal
- 2014 Light perspectives between culture and technology. Kronach leuchtet, light festival. Kronach
- 2014 Architecture and lighting design with LEDs. Tagung: LED in der Lichttechnik.  
Haus der Technik. Essen
- 2014 Qualitative lighting design with efficient LED technology.  
Ostbayerisches Technologie-Transfer-Institut. Regensburg
- 2013 Architecture and lighting design with LEDs. Tagung: LED in der Lichttechnik.  
Haus der Technik. Essen
- 2013 Shadow I like. Science slam, light festival LichtRouten. Lüdenscheid
- 2013 LED in architectural lighting. Energieeffiziente Lichttechnik mit LEDs.  
Ostbayerisches Technologie-Transfer-Institut. Regensburg
- 2012 Shopping frenzy: Planning retail lighting correctly. Seminar.  
Akademie der Architekten- und Stadtplanerkammer Hessen. Wiesbaden
- 2012 Architecture and lighting design with LEDs. Tagung: LED in der Lichttechnik.  
Haus der Technik. Essen
- 2012 LED in architectural lighting. Energieeffiziente Lichttechnik mit LEDs.  
Ostbayerisches Technologie-Transfer-Institut. Regensburg
- 2011 Architecture and lighting design with LEDs. Tagung: LED in der Lichttechnik.  
Haus der Technik. Essen
- 2010 Luminous brand communication. Karlsruhe Institute of Technology. Karlsruhe
- 2010 Architecture and lighting design with LEDs. University of Applied Sciences Holzminden
- 2010 Architecture and lighting design with LEDs. Tagung: LED in der Lichttechnik.  
Haus der Technik. Essen
- 2010 Efficient architectural lighting with LED. Bund Deutscher Baumeister. Neuss
- 2009 Corporate Light as a Design Element for Brands. University of Applied Sciences Mainz
- 2009 Architecture and lighting design with LEDs. Tagung: LED in der Lichttechnik.  
Haus der Technik. Essen
- 2008 Light and Space. Bund Deutscher Baumeister. Düsseldorf. Düsseldorf
- 2008 Light and Architecture. Colloquium. University of Applied Sciences Lausitz.  
Studiengang Elektrotechnik. Senftenberg
- 2008 Light and Space - Luminaires as Architectural Details. Symposium Finishes without limits.  
German Center for Architecture DAZ. Berlin
- 2008 Architecture and lighting design with LEDs. Tagung: LED in der Lichttechnik.  
Haus der Technik. Essen
- 2007 Architecture and lighting design with LEDs. Tagung: LED in der Lichttechnik.  
Haus der Technik. Essen
- 2007 Technology development in architectural lighting. Darmstadt University of Technology
- 2006 Outdoor lighting and LED. Tagung: Innovative Beleuchtung mit LED.  
VDI - Verein deutscher Ingenieure. Düsseldorf
- 2006 Illumination of sacred buildings. Kirchbautagung.  
Arbeitskreis Architektur + Freikirche. Meschede
- 2006 Basics of architectural lighting. University of Applied Sciences Holzminden
- 2005 Illumination at night – Magic or light pollution.  
Deutsche Lichttechnische Gesellschaft. Kassel
- 2005 Architectural lighting with LEDs. NRW Kompetenz-Netzwerk LED. Lüdenscheid
- 2005 Architecture and lighting design with LEDs. Tagung: LED in der Lichttechnik.  
Haus der Technik. Essen
- 2005 Illumination of opera buildings. RWTH Aachen University
- 2003 Illumination of swimming pools. University of Applied Sciences Wiesbaden

## University teaching

### Lighting courses

- 2022 Light and Lighting. Course. University of Wuppertal  
2021 Light and Lighting. Course. University of Wuppertal  
2020 Light and Lighting. Course. University of Wuppertal  
2017 Lighting design. Workshop. Technical University of Munich.  
Collaboration with Marc Hartings, Benjamin Heine  
2016 Lighting design. Workshop. Technical University of Munich.  
Collaboration with Gerd Pfarré, Marc Hartings, Benjamin Heine  
2015 Lighting Field Trip: Roden Crater by James Turrell, Chinati Foundation, Las Vegas.  
Düsseldorf University of Applied Sciences  
2013 Video tutorials for residential lighting in China. Workshop. Tongji University, Shanghai  
2010 Design studio. Guest critic. Department of Design and Environmental Analysis,  
Cornell University, Ithaca  
2009 Light - A symbol of identity 2. Wismar University of Technology, Business and Design  
2009 Technology and Design: Electrical lighting and media technology.  
University of Applied Sciences Cologne  
2008 Light - A symbol of identity 1. Wismar University of Technology, Business and Design  
2008 Light for communication. University of Siegen, Architecture Department  
2008 Corporate Light - Light for mass communication - from youtube to zu2ask.net.  
University of Applied Sciences Cologne  
2008 Luminous ceiling - Light as a ceiling detail between function and ornament.  
University of Applied Sciences Bochum  
2008 Psychology of Corporate Light. Workshop. Dresden University of Technology,  
Institute for work, organisation and social psychology  
2007 Lighting design project. Guest critic. Derek Porter, Lighting Design.  
Parsons The New School, New York  
2007 Retail lighting. University of Applied Sciences Bochum  
2006 Light Cube. University of Applied Sciences Bochum  
2006 Innovative lighting concepts for elevators. University of Applied Sciences Bochum

### Education methods

- 2013 International Lighting Educator Workshop. Collaboration with IALD, PLDA and SLL.  
ERCO, Lüdenscheid.  
2012 How to learn architectural lighting successfully. Symposium Light + Space.  
University of Technology, Munich.  
2011 Learning light and identity. Professional Lighting Design Pre-Convention. Madrid

### Master thesis mentoring

- 2022 H. Caixeta: Lights for Democracy: Lighting as a tool for Brazilian political protests.  
KTH Royal Institute of Technology Stockholm  
2020 P. Bez Cardoso: Light and Mystery in Architecture.  
KTH Royal Institute of Technology Stockholm  
2017 A. Kolovea: Light as a medium for public engagement in the urban space.  
KTH Royal Institute of Technology Stockholm  
2014 B. Kahdemann: Shaping brand identity with light.  
KTH Royal Institute of Technology Stockholm  
2013 H. Gong: Qualitative lighting design principles for automotive lighting.  
KTH Royal Institute of Technology Stockholm  
2013 J. Rubenbeck: Lighting design concepts for electric charging stations.

- Wismar University of Technology, Business and Design
- 2013 L. Wong: Etheral Architecture. Virginia Tech, Blacksburg, USA
- 2012 A. Pradana: Videography as a Tool for Architectural Lighting Design Project Communication. KTH Royal Institute of Technology Stockholm
- 2012 Y. v.d. Broek: Evaluating adaptable lighting concepts for fashion retail: Measuring consumer engagement. KTH Royal Institute of Technology Stockholm
- 2011 S. Esmailzadeh: Recycling - Compact fluorescent lamps. KTH Royal Institute of Technology Stockholm
- 2011 M. Leudesdorff: Retail lighting for fashion stores; Compact fluorescent lamp recycling. KTH Royal Institute of Technology Stockholm
- 2010 R. Block: Luminous ceilings. The perceptual change with modern (day-)light technology. Wismar University of Technology, Business and Design
- 2010 M. Dooney: Lighting design: The importance of vertical illumination in a holistic lighting design methodology. Wismar University of Technology, Business and Design
- 2010 H. Neumann: The Impact of Sustainability on Brand Lighting. Wismar University of Technology, Business and Design
- 2008 I. Kundzina: Light by Motion. Visualizing the spatiotemporal aspects of human perception in lighting design. KTH Royal Institute of Technology. Stockholm

## **Reviewer**

### **Research**

- 2021 Leukos Journal
- 2021 International Journal of Design. Journal
- 2021 Media Architecture Biennale. Conference, Amsterdam / Utrecht
- 2020 Indoor and Built Environment. Journal
- 2020 Lighting Research and Technology. Journal
- 2020 Leukos. Journal
- 2020 Automation in Construction. Journal
- 2019 Lighting Research and Technology. Journal
- 2019 Leukos. Journal
- 2019 Color Research and Application. Journal
- 2019 Building Environment. Journal
- 2017 Indoor and Built Environment. Journal
- 2016 Color Research and Application. Journal
- 2015 Leukos. Journal
- 2015 Lighting Research and Technology. Journal
- 2014 Experiencing Light. Conference, Eindhoven
- 2012 Lighting Research and Technology. Journal
- 2012 Experiencing Light. Conference, Eindhoven
- 2011 9th Biennial Conference on Environmental Psychology. Eindhoven
- 2011 Leukos. Journal

### **Design jury**

- 2014 WAN Lighting Awards, London
- 2012 WAN Lighting Awards, London: Lighting projects, lighting products, lighting installations

## Internships

- 2001 ERCO Lighting: Lighting design and technology. Edison, NJ / USA, 6 months
- 2000 DS-Plan: Building technology, energy management. Prof. Oesterle. Stuttgart, 2 month 2000  
Claus+Pretzsch: Architecture, Project inception, Schematic design, design development, construction documents. Darmstadt, 7 month
- 1999 GBM Modellbau: Model building. Darmstadt, 2 weeks
- 1999 Arch Photo Eduard Hueber: Architecture photography. New York, 1 week
- 1998 Kramm & Strigl: Architecture, construction documents. Darmstadt, 6 weeks
- 1997 Kramm & Strigl: Architecture, construction documents. Darmstadt, 6 weeks
- 1995-1998 Schulze & Ass.: Architecture, competition, design development, public relations. Darmstadt, 3,5 years
- 1994 Hochtief: Building construction. Darmstadt, 2 months
- 1994 Hochtief: Building construction. Darmstadt, 2 months
- 1994 Lube + Schoppa: Architecture, competition, schematic design, model building. Darmstadt, 2 weeks
- 1994 Lube + Schoppa: Architecture, schematic design, model building. Darmstadt, 3 months

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