

SCHRIFTENVERZEICHNIS

Prof. Dr. Peer Kirsch

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VORTRÄGE

1. ANORGANISCHE MATERIALIEN FÜR DIE GERDRUCKTE ELEKTRONIK
Peer Kirsch, *OTTI Fachforum Gedruckte Elektronik*, Regensburg, Deutschland, 7. Feb. **2011**, Invited Lecture.
2. UNDERSTANDING FLUORINE EFFECTS IN NEMATIC LIQUID CRYSTALS
Peer Kirsch, *G-COE Chemistry Seminar*, Tokyo Institute of Technology, Tokyo, Japan, 9. Sept. **2010**, Invited Lecture.
3. FLUORINE EFFECTS IN NEMATIC LIQUID CRYSTALS
Peer Kirsch, *Kikuchi Group Seminar*, Kyushu University, Fukuoka, Japan, 22. Juni **2010**, Invited Lecture.
4. LIQUID CRYSTAL TECHNOLOGY AND MODERN SOCIETY
Peer Kirsch, *Undergraduate Course*, Kyushu University, Fukuoka, Japan, 21. Juni **2010**, Invited Lecture.
5. FLUOREFFEKTE BEI NEMATISCHEN FLÜSSIGKRISTALLEN FÜR DISPLAYANWENDUNGEN
Peer Kirsch, *Anorganisch-Chemisches Seminar*, Universität Freiburg, Deutschland, 19. Nov. **2009**, Invited Lecture.
6. FLUOREFFEKTE BEI NEMATISCHEN FLÜSSIGKRISTALLEN FÜR DISPLAYANWENDUNGEN
Peer Kirsch, *Professor G.-V. Rösenthaller Inauguration Seminar*, Jacobs University Bremen, Deutschland, 26. Sept. **2009**, Invited Lecture.
7. FLUOR BRINGT'S! FLUOREFFEKTE BEI NEMATISCHEN FLÜSSIGKRISTALLEN

- Peer Kirsch, *Inauguration Lecture as Honorary Professor*, Bremen University, Deutschland, 19. Mai **2009**, Invited Lecture.
8. FLUORORGANISCHE CHEMIE IN THEORIE UND PRAXIS
Peer Kirsch, *Dechema-Weiterbildungskurs* (G.-V. Rösenthaler; organizer), University of Bremen, Germany, 16.-18. Feb. **2009**, preparation of lecture block.
 9. SUPER-FLUORINATED LIQUID CRYSTALS FOR LCD APPLICATIONS: DESIGN, SYNTHESIS, NEW DEVELOPMENTS
Peer Kirsch, *3rd Seminar on Fluorinated Clusters in Gas, Liquid and Solid States (3rd SFMC)*, Tokyo AIST Odaiba Center, Japan, 3. Feb. **2009**, Keynote Lecture.
 10. SUPER-FLUORINATED LIQUID CRYSTALS FOR LCD APPLICATIONS: DESIGN, SYNTHESIS, NEW DEVELOPMENTS
Peer Kirsch, *Ishikawa-Kobayashi Fluorine Symposium*, Tokyo Institute of Technology, Japan, 4. Nov. **2008**, Invited Lecture.
 11. FLUOROSURFACTANTS WITH MINERALIZABLE FLUOROGROUPS
Peer Kirsch, Elvira Montenegro, Nikolai Ignatiev, Wolfgang Hierse, *1st International Workshop on Fluorinated Surfactants*, Idstein, Germany, 26.-28. Juni **2008**, Invited Lecture.
 12. SUPER-FLUORINATED LIQUID CRYSTALS FOR LCD APPLICATIONS: DESIGN, SYNTHESIS, NEW DEVELOPMENTS
Peer Kirsch, Nagoya Institute of Technology, Japan, 8. Feb. **2008**, Invited Lecture.
 13. LIQUID CRYSTALS FOR ACTIVE MATRIX LCDS: OPTIMIZING PERFORMANCE BY FLUORINATED ALKANE SUBSTRUCTURES
Peer Kirsch, *1st Kanto Branch Meeting of the Japanese Chemical Society*, Tokyo, Japan, 27.-28. Sept. **2007**, Invited Lecture.
 14. FLUORINE EFFECTS ON THE MESOGENIC PROPERTIES OF LIQUID CRYSTALS FOR ACTIVE MATRIX LCD
Peer Kirsch, *234th American Chemical Society National Meeting*, Boston, USA, 19.-23. Aug. **2007**, Invited Lecture.
 15. FLUORINE EFFECTS ON THE PHYSICAL AND CHEMICAL PROPERTIES OF LIQUID CRYSTALS
Peer Kirsch, *15th European Symposium on Fluorine Chemistry*, Prag, Tschechien, 15.-20. Juli **2007**.
 16. HIGHLY FLUORINATED LIQUID CRYSTALS FOR ACTIVE MATRIX LCDS
Peer Kirsch, Kenichi Nishikawa, *Annual Meeting of the Japanese Chemical Society*, Osaka, Japan, 23.-25. März **2007**, Invited Lecture.
 17. FLUORINE EFFECTS ON THE PHYSICAL PROPERTIES OF LIQUID CRYSTALS
Peer Kirsch, University of Hirosaki, Japan, 12. Dez. **2006**, Invited Lecture.
 18. FLUORINE EFFECTS ON THE PHYSICAL PROPERTIES OF LIQUID CRYSTALS
Peer Kirsch, Tokyo Institute of Technology, Japan, 1. Dez. **2006**, Invited Lecture.
 19. LIQUID CRYSTALS FOR ACTIVE MATRIX LCDS: SULFUR MEETS FLUORINE
Peer Kirsch, *JSPS Fluorine Committee Symposium*, Tokyo, Japan, 20.-21. Apr. **2006**, Invited Lecture.
 20. NEMATIC LIQUID CRYSTALS WITH HIGHLY FLUORINATED SUBSTRUCTURES
Peer Kirsch, *Annual Meeting of the Japanese Liquid Crystal Society 2005*, Ritsumeikan University, Kusatsu, Japan, 6.-8. Sept. **2005**, Vortrag 3B05.
 21. LIQUID CRYSTALS FOR ACTIVE MATRIX LCDS: FLUORINE AS AN ENABLER FOR UNIQUE MATERIALS PROPERTIES

- Peer Kirsch, Alexander Hahn, Marc Lenges, Andreas Ruhl, *Organic Fluorine Chemistry Symposium*, University of Okayama, Japan, 2. Sept. **2005**, Invited Lecture.
22. FLUORINE IN LIQUID CRYSTALLINE MATERIALS: NECESSITY AND SYNTHETIC CHALLENGE
Peer Kirsch, *17th Winter Fluorine Conference*, St. Petersburg Beach, FL, USA, 9.-14. Jan. **2005**, Plenary Lecture No. 53.
 23. HIGHLY FLUORINATED LIQUID CRYSTALS FOR ACTIVE MATRIX LCDs: DESIGN, SYNTHESIS AND RECENT DEVELOPMENTS
Peer Kirsch, *University of Alabama*, Tuscaloosa, AL, USA, 30. Aug. **2004**, Invited Lecture.
 24. HIGHLY FLUORINATED LIQUID CRYSTALS FOR ACTIVE MATRIX LCDs: NEW CONCEPTS AND DEVELOPMENTS
Peer Kirsch, *228th American Chemical Society National Meeting*, Philadelphia, USA, 22.-26. Aug. **2004**, Invited Lecture.
 25. HIGHLY FLUORINATED LIQUID CRYSTALS FOR ACTIVE MATRIX LCDs: NEW CONCEPTS AND DEVELOPMENTS
Peer Kirsch, *14th European Symposium on Fluorine Chemistry (ESFC-14)*, Poznan, Polen, 11.-16. Juli **2004**, Keynote Lecture C-L-11.
 26. 100 YEARS OF LIQUID CRYSTALS AT MERCK
Peer Kirsch, *20th International Liquid Crystal Conference (ILCC-20)*, Ljubljana, Slovenien, 4.-9. Juli **2004**, Special Plenary Lecture.
 27. HIGHLY FLUORINATED LIQUID CRYSTALS FOR ACTIVE MATRIX LCDs: DESIGN, SYNTHESIS AND RECENT DEVELOPMENTS
Peer Kirsch, *The Ninth International Kyoto Conference on New Aspects of Organic Chemistry (IKCOC-9)*, Kyoto, Japan, 10.-14. Nov. **2003**, Invited Lecture II-12.
 28. NEW LIQUID CRYSTALS FOR DISPLAY APPLICATIONS: FLUORINE MEETS SULFUR
Peer Kirsch, *3rd RSC Fluorine Subject Group Postgraduate Meeting*, University of St. Andrews, UK, 4.-5. Sept. **2003**, Keynote Lecture.
 29. FLUORIERTE FLÜSSIGKRISTALLE FÜR AKTIV-MATRIX-DISPLAYS: DESIGN, SYNTHESE UND EIGENSCHAFTEN
Peer Kirsch, *GDCh-Kolloquium*, Universität Duisburg, 6. Mai **2003**.
 30. DITHIANYLIUM SALTS: VERSATILE TOOLS IN FLUOROORGANIC SYNTHESIS
Peer Kirsch, Andreas Taugerbeck, Dmitrii V. Sevenard, Gerd-Volker Rösenthaller, *16th Winter Fluorine Conference*, St. Petersburg Beach, Florida, USA, 12.-17. Jan. **2003**, Vortrag 98.
 31. FLUORIERTE FLÜSSIGKRISTALLE FÜR AKTIV-MATRIX-DISPLAYS: DESIGN, SYNTHESE UND EIGENSCHAFTEN
Peer Kirsch, *Antrittsvorlesung als Privatdozent*, Universität Bremen, 17. Juni **2002**.
 32. FLUORIERTE FLÜSSIGKRISTALLE FÜR AKTIV-MATRIX-DISPLAYS: DESIGN, SYNTHESE UND EIGENSCHAFTEN
Peer Kirsch, *Kolloquium über Organische Chemie und Biochemie*, Universität Münster, Deutschland, 13. Juni **2002**.
 33. FROM MOBILE PHONE TO FLAT-PANEL TV: DESIGN OF NEMATIC LIQUID CRYSTALS FOR DISPLAY APPLICATIONS
Peer Kirsch, *5th International Symposium on Functional π -Electron Systems (F π 5)*, Ulm/Neu-Ulm, Deutschland, 30. Mai-4. Juni **2002**, Vortrag PL-10, Invited Lecture.
 34. FLUORINATED LIQUID CRYSTALS FOR ACTIVE MATRIX DISPLAYS

- Peer Kirsch, *Quatorzièmes Entretiens du Centre Jacques Cartier*, Rhône-Alpes, Lyon, Frankreich, 2.-5. Dez. **2001**, Invited Lecture.
35. ADVANCED ULTRA LOW BIREFRINGENCE, HIGH RELIABILITY LC MATERIAL FOR LOW POWER CONSUMPTION REFLECTIVE/TRANSPARENT TFT DISPLAY APPLICATIONS
Georg Lüssem, Matthias Bremer, Christian Hock, Hideo Ichinose, Peer Kirsch, Dagmar Klement, Kazuaki Tarumi, *Asia Display/IDW 2001*, Nagoya, Japan, 16.-19. Okt. **2001**, LCT1-2.
 36. CONFORMATION ANALYSIS OF FLUORINATED LIQUID CRYSTALS
M. Yoshida, Hiro Toriumi, Hideo Ichinose, Peer Kirsch, *Japanese Liquid Crystal Conference*, Omiya, Saitama, Japan, 25.-27. Sept. **2001**.
 37. LIQUID CRYSTALS WITH HIGHLY FLUORINATED BRIDGE ELEMENTS
Peer Kirsch, Matthias Bremer, Florian Huber, Max Lieb, Andreas Taugerbeck, Tilman Wallmichrath, *15th Winter Fluorine Conference*, St. Petersburg Beach, Florida, USA, 14.-19. Jan. **2001**, Vortrag 20.
 38. HYPERVALENT SULFUR FLUORIDES AS BUILDING BLOCKS FOR LIQUID CRYSTALS
Peer Kirsch, Matthias Bremer, Annette Kirsch, Jens Osterodt, *16th International Symposium on Fluorine Chemistry*, Durham, UK, 16.-21. Juli **2000**, Vortrag A 36.
 39. FLUORHALTIGE FLÜSSIGKRISTALLE FÜR AKTIV-MATRIX-DISPLAYS
Peer Kirsch, *Materialwissenschaftliches Seminar der Universität Bremen*, 7. Juli **2000**.
 40. TRIFLUOROMETHYLATED LIQUID CRYSTALS: MOLECULAR DESIGN AND SYNTHESIS
Peer Kirsch, *219th American Chemical Society National Meeting*, San Francisco, CA, USA, 26.-31. März **2000**, Invited Lecture FLUO 0035.
 41. LIQUID CRYSTALS FOR ACTIVE MATRIX DISPLAYS: MOLECULAR DESIGN, SYNTHESIS AND PROPERTIES
Peer Kirsch, *RIKEN-Seminar*, The Institute of Physical and Chemical Research (RIKEN), Wako-shi, Saitama, Japan, 24. Nov. **1999**.
 42. FLUORHALTIGE FLÜSSIGKRISTALLE FÜR AKTIV-MATRIX-DISPLAYS
Peer Kirsch, *Anorganisch-Chemisches Kolloquium der Universität Bremen*, 26. Apr. **1999**.
 43. LIQUID CRYSTALS WITH PENTAFLUOROSULFURANYL AS A POLAR TERMINAL GROUP
Peer Kirsch, Matthias Bremer, Michael Heckmeier, Kazuaki Tarumi, *14th Winter Fluorine Conference*, St. Petersburg Beach, Florida, USA, 17.-22. Jan. **1999**, Vortrag 35.
 44. DEVELOPMENT TARGETS FOR NEW LIQUID CRYSTALLINE MATERIALS: SYNTHETIC, ANALYTICAL AND COMPUTATIONAL CHEMISTRY, III
Peer Kirsch, *7th ASET Technical Conference*, Darmstadt, 27.-28. Juli **1998**.
 45. DEVELOPMENT TARGETS FOR NEW LIQUID CRYSTALLINE MATERIALS: SYNTHETIC, ANALYTICAL AND COMPUTATIONAL CHEMISTRY, II
Peer Kirsch, *6th ASET Technical Conference*, Itami, Japan, 26.-27. Feb. **1998**.
 46. DEVELOPMENT TARGETS FOR NEW LIQUID CRYSTALLINE MATERIALS: SYNTHETIC, ANALYTICAL AND COMPUTATIONAL CHEMISTRY, I
Peer Kirsch, *4th ASET Technical Conference*, Zushi, Japan, 4.-5. Juni **1997**.

POSTER

1. SINGLE COMPOUND LIBRARIES OF ORGANIC MATERIALS: COMBINATORIAL PARALLEL SYNTHESIS OF LIQUID CRYSTALLINE MATERIALS

- Oliver Deeg, Peer Kirsch, Detlef Pauluth, Peter Bäuerle, *5th International Symposium on Functional π -Electron Systems (F π 5)*, Ulm/Neu-Ulm, 30. Mai-4. Juni **2002**, P 5541-0394.
2. 2-TRIFLUOROMETHYL-1,3-DITHIANYL IUM TRIFLATE – A NEW VERSATILE REAGENT FOR PENTAFLUOROETHYLATION
Dmitri V. Sevenard, Peer Kirsch, Enno Lork, Gerd-Volker Rösenthaller, *4th International Symposium "St. Petersburg Meetings" (ISPM-IV)*, St. Petersburg, Russland, 26.-31. Mai **2002**.
 3. A NOVEL SYNTHESIS OF DIFLUOROXYMETHYLENE BRIDGED LIQUID CRYSTALS
Andreas Taugerbeck, Matthias Bremer, Peer Kirsch, Detlef Pauluth, *15th Winter Fluorine Conference*, St. Petersburg Beach, Florida, USA, 14.-19. Jan. **2001**, Poster 52.
 4. MATERIALS FOR LIQUID CRYSTAL DISPLAYS WITH REDUCED POWER CONSUMPTION
Peer Kirsch, Matthias Bremer, Annette Kirsch, Atsutaka Manabe, Eike Poetsch, Volker Reiffenrath, Kazuaki Tarumi, *Anglo-Japanese Seminar on Liquid Crystals '99*, Nara, Japan, 26.-28. Mai **1999**, P-3.
 5. LIQUID CRYSTALS WITH PENTAFLUROSULFURANYL AS A POLAR TERMINAL GROUP, III
Peer Kirsch, Matthias Bremer, Michael Heckmeier, Kazuaki Tarumi, *Anglo-Japanese Seminar on Liquid Crystals '99*, Nara, Japan, 26.-28. Mai **1999**, P-20.
 6. LIQUID CRYSTALS WITH PENTAFLUROSULFURANYL AS A POLAR TERMINAL GROUP, II
Peer Kirsch, Matthias Bremer, Michael Heckmeier, Kazuaki Tarumi, *28. Freiburger Arbeitstagung Flüssigkristalle*, Freiburg, 24.-26. März **1999**, P1.
 7. STUDY OF IONS IN LC MIXTURES BY TRANSIENT CURRENT MEASUREMENT
Yuji Nakazono, Toshiyuki Takagi, Atsushi Sawada, Peer Kirsch, Matthias Bremer, Shohei Naemura, *17th International Liquid Crystal Conference*, Strasbourg, Frankreich, 19.-24. Juli **1998**, P4-186.
 8. STRUCTURE OF IONS IN LIQUID CRYSTALLINE MATERIALS
Shohei Naemura, Yuji Nakazono, Kenichi Nishikawa, Atsushi Sawada, Peer Kirsch, Matthias Bremer, Kazuaki Tarumi, *'98 Spring Meeting of Material Res. Soc.*, San Francisco, CA, USA, 13.-17. Apr. **1998**.
 9. A NOVEL TYPE OF LIQUID CRYSTALS BASED ON AXIALLY FLUORINATED CYCLOHEXANE SUBSTRUCTURES, II
Peer Kirsch, Shohei Naemura, Kazuaki Tarumi, *27. Freiburger Arbeitstagung Flüssigkristalle*, Freiburg, 25.-27. März **1998**, P45.
 10. DESIGN AND SYNTHESIS OF NOVEL TRANS-1,3-DIOXANE BASED LIQUID CRYSTALS, II
Peer Kirsch, Eike Poetsch, *27. Freiburger Arbeitstagung Flüssigkristalle*, Freiburg, 25.-27. März **1998**, P46.
 11. A NOVEL TYPE OF LIQUID CRYSTALS BASED ON AXIALLY FLUORINATED CYCLOHEXANE SUBSTRUCTURES
Peer Kirsch, Shohei Naemura, Kazuaki Tarumi, *15th International Symposium on Fluorine Chemistry*, Vancouver, Canada, 2.-7. Aug. **1997**, P(2)158.
 12. DESIGN AND SYNTHESIS OF NOVEL TRANS-1,3-DIOXANE BASED LIQUID CRYSTALS
Peer Kirsch, Eike Poetsch, *RCS Perkin Division: 15th International Symposium Synthesis in Organic Chemistry*, Oxford, UK, 22.-24. Juli **1997**, P36.
 13. NEW WATER SOLUBLE AND PHOTOLABILE 10-ARYLISOALLOXAZINES AS INHIBITORS OF GLUTATHIONE REDUCTASE
Peer Kirsch, Annette Schönleben-Janass, *Herbsttagung der GBCb*, Hannover, Deutschland, 11.-13. Sept. **1995**; *Biol. Chem. Hoppe-Seyler* **1995**, 376, S115.

14. SYNTHESIS OF N-ACETYLGLUCOSAMINYL ASPARAGINE SUBSTITUTED PUROMYCIN ANALOGUES

Peer Kirsch, Naoto Kusunose, Jun-ichi Aikawa, Takanori Kigawa, Shigeyuki Yokoyama, Tomoya Ogawa, *6th International Kyoto Conference on New Aspects of Organic Chemistry (IKCOC-6)*, Kyoto, Japan, 7.-11. Nov. **1994**, PP-311.

SONSTIGES

1. FLUORIERTE FLÜSSIGKRISTALLE FÜR AKTIV-MATRIX-DISPLAYS: DESIGN, SYNTHESE UND EIGENSCHAFTEN

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2. MODELLVERBINDUNGEN ZUR UNTERSUCHUNG VON $\pi\cdots\pi$ -WECHSELWIRKUNGEN IN FLAVIN-CHINON UND FLAVIN-FLAVIN-SYSTEMEN

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3. MODELLSYSTEME FÜR ACTIVE SITE-KOMPLEXE BEI FLAVOENZYMEN: VORSTUFEN ZU EINEM NICOTINAMID-FLAVIN-CYCLOPHAN

Peer Kirsch, *Diplomarbeit*, Universität Heidelberg, **1990**.