

Veröffentlichungen

Zeitschriften

1. F.A. Cebul, K.A. Kirk, D.W. Lupo, L.M. Pittenger, M.D. Schuh, I.R. Williams and G.C. Winston, "Charge-Transfer Mechanism for Quenching of the lowest $3^{\pi, \pi}$ State of Vapor Phase Carbonyl-Containing Compounds by O_2 ", *J. Amer. Chem. Soc.* **102**, 5656 (1980).
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10. I. Ledoux, D. Josse, J. Zyss, T. Maclean, R.A. Hann, P.F. Gordon, S. Allen, D. Lupo, W. Prass, U. Scheunemann, A. Laschewsky, H. Ringsdorf, "Quadratic Nonlinear Behaviour of Various Langmuir-Blodgett Molecules", in: *Nonlinear Optical Effects in Organic Polymers*, J. Messier et al., ed. Dordrecht: Kluwer Academic Publishers (1989).
11. D. Lupo, W. Prass and U. Scheunemann, "Structure and Properties of Langmuir-Blodgett Films Made from Polyamides", *Thin Solid Films* **178**, 403 (1989).
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13. W. Groh, D. Lupo and H. Sixl, "Polymer Optical Fibers and Nonlinear Optical Device Principles", *Angew. Chemie Advan. Mat.* **101**, 1580 (1989).
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33. U. Bach, D. Corr, D. Lupo, F. Pichot, M. Ryan, "Nanomaterials-Based Electrochromics for Paper-Quality Displays", *Advanced Materials* **14**, 845 (2002).
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Auswahl offengelegter Patente und Patentanmeldungen

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3. „Optical elements with Langmuir-Blodgett layers“. Hoechst AG, EP 93-116954 (1993).
4. „Conjugated polymers with a spiro atom for use as electroluminescent materials“. Hoechst AG, EP 707020 (1994)
5. „Conjugated polymers with hetero spiro atoms and their use as electroluminescent materials“. Hoechst AG, DE 94-4442052 (1994).
6. „Polymers comprising 4,5,9,10-tetrahydropyrene-2,7-diyl units and their use as electroluminescent materials“, Hoechst AG, EP 699699 (1995).
7. „Conjugated polymers containing ansa structures as electroluminescent materials“. Hoechst AG, EP 95-109927 (1995).
8. „Spiro compounds and their use as electroluminescent materials“. Hoechst AG, EP 95-104475 (1995).
9. „Poly(paraphenylene vinylene) derivatives and their use as electroluminescent materials“.Hoechst AG, WO 9610617 (1996).
10. „Photovoltaische Zelle“, Hoechst AG, WO 97-10617 (1997).
11. „Sensor Element and Sensor for the Determination of Ozone Concentration“, Hoechst AG, DE 196 19 226 (1997).
12. „Photovoltaic Cell“, Hoechst AG, WO 9848433 (1998).
13. „Photodetector and Use of Same“, Aventis Research and Technology, WO 9945595 (1999).
14. „Electroluminescent Device made of organic Material“, Aventis Research and Technology, EP 0946995 (1999).
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20. „Electrochromic Particles“, NTera Ltd., EP 1592758 (2005).
21. „Multilayer System Method for Production and Use Thereof in Electro-Optical Components“, University of Mainz, EP 1834343 (2007).
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Auswahl öffentlicher Vorträge

1. „Second Harmonic Generation in Langmuir-Blodgett Films“, invited lecture, Department of Physics, Trinity College, Dublin, 22 May 1988.
2. „Nichtlineare Optik für Chemiker“, invited lecture, Institut für org. Chemie, Universität München, 20 Dec. 1988.
3. „Ultrathin Organic Films for Nonlinear Optics“, invited lecture, Dept. of Chemistry, Indiana University, 30 March 1989.
4. „Optische Eigenschaften ultradünner organischer Schichten“, invited lecture, 28. Dechema Symposium „Polymere und Licht“, Tutzing, 12.-15. March 1990.
5. „Organische Materialien und Dünne Schichten für nichtlineare Optik“, invited lecture, Institut für org. Chemie, Universität Braunschweig, 12 Feb. 1992.
6. „From Monolayers to Waveguides: Langmuir-Blodgett Films for Nonlinear Optics“, plenary lecture, Miyazaki Symposium of the Japanese Polymer Society, Tokyo, 24 June 1993.
7. „The Plastic LED: Devices and Materials for Polymeric Light-Emitting Diodes“, invited lecture, Department of Chemistry, Davidson College, 27 April 1995.
8. „Ultrafast Hole Injection from Dye Molecules into an Organic Hole Conductor for Solid-State Dye-Sensitized Solar Cells“, U. Bach, F. Weissoertel, J. Uebe, M. Graetzel, D. Lupo and J. Salbeck, Poster, Bayreuth Polymer and Materials Research Symposium, 7.-9. April 1997.
9. „Strom aus Himbeeren? Die „Grätzel-Zelle“, eine neuartige Technik zur Gewinnung von Solarstrom“, guest lecture in course „Einführung in die Solartechnik“, Fachhochschule-Frankfurt am Main, Fachbereich Mathematik-Naturwissenschaften-Datenverarbeitung, 21. May 1997.
10. „Lichtemittierende Polymere: ein Weg zu flachen Anzeigen“, plenary lecture, graduation ceremony, Chemieschule Fresenius, Kloster Eberbach, July 1997.
11. „Organic Solar Cells: Overview and Perspectives“, invited talk, Spring Meeting of the Deutschen Physikalischen Gesellschaft, Gruppe Festkörperphysik, Münster, 30 March 1999.
12. „Novel Nanostructured Electrochromic Devices for Smart Windows and Displays“, Poster, Gordon Conference on Electronic Processes in Organic Systems, Newport, R.I., USA, 30. Juli – 4. August 2000.
13. „Doing a Lot with a Little: Grundlagen und Anwendungen chemisch modifizierter nanostrukturierter Halbleiter“, Seminar in chemical technology, Universität Mainz, 5. June 2002.

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14. „Electronic Paper Displays: Applications, Requirements and Technologies“, invited lecture, Electronic Displays 2003, Wiesbaden, Sept. 2003.

15. “Printable Non-Volatile Re-Writable Memory”, invited lecture, International Symposium on Flexible Electronics and Displays, Hsinchu, Taiwan, Nov. 2008.