

Professor Christoph J. Brabec

Department of Materials Science and Engineering
Friedrich-Alexander-Universität Erlangen-Nürnberg
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Research Interests:

Research and development on organic and hybrid semiconductors, with a strong focus on the photophysics and transport properties of disordered semiconductors.

Development and investigation of organic and/or printed solar cells, with a strong focus on the development of novel materials, investigation of microstructure & morphology formation in organic semiconductor composites and on the fundamentals of thin film solar cells.

Development of low cost production technologies for semiconductor devices, with a strong focus on printing and coating technologies.

Development of optoelectronic devices for renewable energy applications like (i) 3rd generation solar cell technologies (ii) lighting and (iii) light management.

Development and application of non-destructive imaging methods for optoelectronic devices, like EL or IR imagin

Publications:

Number of refereed publications: 184

Number of patents: 95

Hirsch Index: 51

Education:

1985 - 1992: Study of Physics at the Kepler University Linz, Austria with sponson for Dipl.-Ing in physics on the theory of high temperature superconductors under the supervision of Prof. Dr. Wilhelm Macke and Doz. Dr. Ulf Klein.

1992 - 1995: PhD study at the Kepler University of Linz, Austria with promotion for Doctor of Science in physics under supervision of Prof. Hermann Janeschitz-Kriegl and Doz. Dr. Alois Schausberger on "rheoloical characterization of polymer blends".

1996: Sabbatical at the Institute for Polymers & Organic Solids at the University of California, Santa Barbara (Prof. Alan J. HEEGER, Nobel laureate 2000)

2003: Habilitation for the academic title of "docent" at the Kepler University Linz on the topic of plastic solar cells

PROFESSIONAL DEVELOPMENT

- 1995 -1998: Appointment to the position of an assistant professor at the Kepler University of Linz, Austria, with specialization in the rheological, optical, electrical and magnetic characterization of polymers.
- 1996: Sabbatical at the Institute for Polymers & Organic Solids at the University of California, Santa Barbara (Prof. Alan J. HEEGER, Nobel laureate 2000 for Chemistry)
- 1998 - 2001: Principal Investigator (PI) at the CD Laboratory for Plastic Solar Cells, Linz, Austria
- 2001-2004 Principal research scientist & project leader at Siemens Corporate Technology, Department Microsystems and Materials, Erlangen, Germany
- 2004 - 2009: Various positions at Konarka Technologies after a successful outsourcing of the organic photovoltaics activities from Siemens
- 08/2004: Appointment to the Director of OPV at Konarka Technologies, Lowell, USA
- 2005: Appointment to the CEO for Konarka Austria and Konarka Nuremberg
- 04/2006 Appointment to the CTO and Vice President at Konarka Technologies, Lowell, USA
- 2009- ongoing W3 Professor at FAU University Erlangen-Nuremberg (Institute Materials for Electronics and Energy Technology – i-MEET)
- 2009 Appointment to the scientific director of the ZAE Bayern, Erlangen
- 2009 Appointment as Executive Board Member of the ZAE Bayern
- 2010 Appointment as Board Member of the Energy Campus Nuremberg e.V

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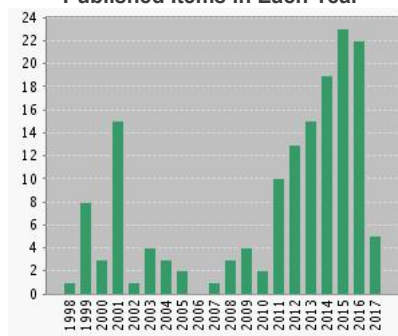
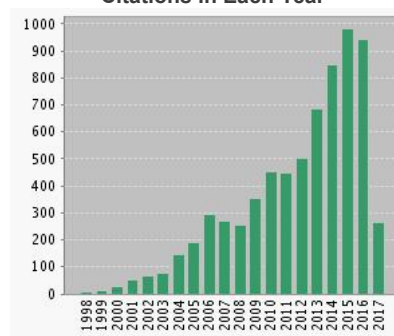
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By: Steim, Roland; Kogler, F. Rene; Brabec, Christoph J.
JOURNAL OF MATERIALS CHEMISTRY Volume: 20 Issue: 13 Pages: 2499-2512 Published: 2010 |
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By: Yakobson, BI; Campbell, MP; Brabec, CJ; et al. |

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| | | By: Schilinsky, P; Asawapirom, U; Scherf, U; et al.
CHEMISTRY OF MATERIALS Volume: 17 Issue: 8 Pages: 2175-2180 Published: APR 19 2005 | | | | | | | |
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SOLAR ENERGY MATERIALS AND SOLAR CELLS Volume: 92 Issue: 7 Pages: 727-731 Published: JUL 2008 | | | | | | | |
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MRS BULLETIN Volume: 33 Issue: 7 Pages: 670-675 Published: JUL 2008 | | | | | | | |
| <input type="checkbox"/> | 7. | Production aspects of organic photovoltaics and their impact on the commercialization of devices | 15 | 10 | 11 | 14 | 2 | 200 | 15.38 |
| | | By: Brabec, CJ; Hauch, JA; Schilinsky, P; et al.
MRS BULLETIN Volume: 30 Issue: 1 Pages: 50-52 Published: JAN 2005 | | | | | | | |
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SOLAR ENERGY MATERIALS AND SOLAR CELLS Volume: 61 Issue: 1 Pages: 35-42 Published: FEB 15 2000 | | | | | | | |
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JOURNAL OF MATERIALS CHEMISTRY Volume: 13 Issue: 4 Pages: 700-704 Published: 2003 | | | | | | | |
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CHEMISTRY OF MATERIALS Volume: 20 Issue: 12 Pages: 4045-4050 Published: JUN 24 2008 | | | | | | | |

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