



## Curriculum Vitae

### *PD Dr. rer. nat. habil. Daniel Ayuk Mbi EGBE*

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### **PERSONAL INFORMATION**

***Date of birth:*** May 20, 1966

***Place of Birth:*** Mambanda-Kumba, Cameroon

***Marital status:*** married (4 children)

***Nationality:*** German since March 2003 (former: Cameroonian)

***Private addresses:*** Semmelweisstr.19, 07743 Jena, Germany/  
Julius-Raab-Str.10, 4040 Linz, Austria



**Research Interests:** Synthesis and study of structure-property relations of (semi)conducting organic and organic/inorganic hybrid materials (small molecules and polymers) finding applications in organic light-emitting-diodes (OLED), organic photovoltaics (OPV), organic field-effect-transistors (OFET), photocatalytic reduction of CO<sub>2</sub>, etc.

### **EDUCATION**

02/2000-01/2006    **Habilitation in Organic Chemistry.** Research topic: “Structure-properties relationships of hybrid arylene-ethynylene/ arylene-vinylene polymers” at the Friedrich-Schiller University (FSU) Jena. Titles obtained: **Dr. rer. nat. habil.** and **Privatdozent.**

04/1996-07/1999    **Ph.D. in Organic and Macromolecular Chemistry.** Dissertation: *Synthesis, characterisation and photophysical properties of 2,2'-bipyridine-containing poly(aryleneethynylene)s* at the Institute of Organic Chemistry and Macromolecular Chemistry of FSU Jena. Supervisor: Prof. Dr. Elisabeth Klemm. Graduation: **Dr.rer. nat.**, magna cum laude.

- 11/1994-10/1995 **M.Sc. (Diplom) in Chemistry** at the FSU Jena. Thesis: *Synthetic siderophores on the basis of polyhydroxy compounds* at the Hans-Knöll-Institute for Natural Products Research Jena e. V. Supervisor: Prof. Dr. Dieter Klemm. Graduation: **Diplom-Chemiker**.
- 10/1992-07/1999 Chemistry student at the FSU Jena
- 10/1986-06/1991 Student of Chemistry and Physics at the University of Yaounde, Cameroon. Graduation: **B.Sc. Hons in Organic Chemistry**.
- 04/1987-05/1991 German language student at Goethe Institute in Yaounde, Cameroon, and in Ludwigsburg, Germany (07/1988-08/1988). Language certificates: Zertifikat Deutsch als Fremdsprache (05/1988), Zertifikat Mittelstufenprüfung (05/1990), Zeugnis Oberstufenprüfung (05/1991)
- 09/1979-06/1986 Student at the Bilingual Grammar School (Lycée Bilingue) of Molyko-Buea, Cameroon. Certificates obtained: Brévet d'Études du Premier Cycle-BEPC (06/1983), Certificat de Probation Série C (06/1985), Baccalauréat Série C (06/1986), General Certificate of Education Advanced Level in Mathematics, Further Mathematics and French Literature (06/1986)
- 09/1973-07/1977 Pupil at the Apostolic Bilingual School of Yato and Bekoko, Cameroon
- 09/1977-07/1979 Pupil at the Ecole Publique de Bomono-Gare, Cameroon. Certificate obtained: Certificat d'Études Primaires Élémentaires (CEPE)

## **PROFESSIONAL EXPERIENCE**

- 7/2012-present **Scientific Consultant at the *Abdus Salam* International Centre for Theoretical Physics (ICTP)**, Trieste Italy in ICTP renewable energy initiatives, coordination of ANSOLE, coorganisation of conferences/schools...
- 3/2009-present **Senior Scientist and Coordinator of African Network for Solar Energy:** Linz Institute for Organic Solar Cells (LIOS), Johannes Kepler University Linz Austria. DFG-project leader (2009-2012)
- 10/2007- 12/2008 **Senior Scientist and DFG-Project Leader:** Institute for Print and Media Technology of the Chemnitz University of Technology, Germany, in the group of Prof. Dr. Reinhard Baumann.
- 02/2006- 2008 **“Privatdozent”** at the Faculty of Chemistry and Geosciences of the Friedrich-Schiller University Jena, Germany lecturing on “*Structure-Property Relationships of Semiconducting Polymers*”.
- 10/2006-09/2007 **Postdoc:** Laboratory of Macromolecular Chemistry and Nanoscience, Eindhoven University of Technology (TU/e), The Netherlands, in the group of Prof. Dr. Ulrich S. Schubert.

- 02/2006-08/2006      **Postdoc:** Max-Planck-Institute for Polymer Research, Mainz, Germany, in the group of Prof. Dr. Klaus Müllen.
- 02/1996-01/2006      **Scientific coworker in research and teaching** at the Institute of Organic Chemistry and Macromolecular Chemistry of the FSU Jena.
- 03/1993-10/1995      **Student research assistant** at Hans-Knöll-Institute for Natural Products Research, Jena, Germany.

## **TEACHING EXPERIENCE**

### **Friedrich Schiller University Jena, Germany**

- 1997-2005              General Chemistry for medical students: Practicals and tutorials
- 1999-2000              Organic Chemistry practicals for Biology students
- 2000-2001              Organic Chemistry practicals for Biochemistry students
- 2002-2005              “Hauptstudium” Organic Chemistry: Practicals and tutorials (OC III)
- 2004-2005              Organic Chemistry lecture for medical students
- 2004-2005              Polymer Chemistry lecture for materials scientists
- 2005-2006              Fundamental Organic Chemistry practicals (OCII)
- 2006-2008              Lecture “Organic Semiconducting Polymers: Structure-Property Relations”

### **Chemnitz University of Technology (TU –Chemnitz) Germany**

- 2007-2008              Faculty of Mechanical Engineering: Lecture on “Films as output medium”
- SS-2008                Faculty of Natural Sciences: Lecture “Organic Semiconducting Polymers: Synthesis and Structure-Property Relations”

### **Johannes Kepler University (JKU) Linz, Austria**

- WS-2009 till date      Lecture: Physical Chemistry I for Biological Chemistry students
- SS-2010 till date      Lecture “Organic Semiconducting Polymers: Synthesis and Structure-Property Relations”
- 2010-2012              Fundamental Organic Chemistry practicals (OCII)

## **LANGUAGES**

English, French and German (written and spoken); Pidgin-English, Kenyang (spoken), modern Hebrew (presently attending advanced classes).

## MEMBERSHIPS

German Chemical Society (GDCh), Organic Electronics Association (OE-A), Deutscher Hochschulverband (DHV), World University Service (WUS), german chapter ( member of board of directors) , Coordination Office Cameroon-Germany (initiator). Initiator and coordinator of African Network for Solar Energy (ANSOLE), Initiator and Chairman of ANSOLE e.V., Initiator of Cameroon Renewable Energy Network (CAMREN).

## OTHERS

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-**Supervisor** of 4 Masters theses: Stephan Sell (FSU Jena, 2004), Christoph Ulbricht (FSU Jena, 2005), Kathy Schmidtke (FSU Jena, 2006) and Andreas Wild (FSU Jena, 2007)

-**Cosupervisor** of two PhD theses (Emine Tekin, TU-Eindhoven, Netherlands, 2008; Getachew Adam, University of Addis Ababa, 2012).

-**Supervisor** of international exchange students in the synthesis of conjugated polymers (undergraduates, Ph.D. and postdocs) from Thailand, USA, India, Turkey, Russia, Algeria, and Nigeria

-**Presently official cosupervisor** of PhD theses from Algeria (Sameh Boudiba, University of Tebessa; Nassima Bouguerra, University of Bejaia) and Egypt (Shaimaa Ali Ahmed Mohamed, Benha University Cairo, Egypt)

-**Reviewer** in more than 20 international journals

-**Reviewer** at various funding agencies (DFG, NWO etc)

-**External Examiner** of Masters and PhD theses (University of Jena, Germany; University of Kassel, Germany; University of Ilmenau, Germany; University of the Witwatersrand, Johannesburg South Africa)

-**Guest Editor** of the African Journal of Science, Technology, Innovation & Development, Vol.4, N° 4, 2012, Special Issue on “ Building Technological Capacities in Solar Energy in Africa

-**Editor** of Abstract booklet of the “ANSOLE DAYS 2012: Solar Energy for Sustainable Development”, 17-19. 02. 2012, Yaounde, Cameroon

-**Editor** of Mini-Abstract booklet of the “ANSOLE-ICTP Fellows Workshop”, 05.01.2013, Mohammedia, Morocco.

-**Editor** of the Mini-Abstract booklet of ANSOLE Mini-Symposium in Kenya (AMSK 2013), 09.05.2013

-**Coordinator** of ICTP-ANSOLE Scholarship programme (ANEX and INEX)

-(**Co**)-**Organizer** of international scientific events

-**Member of the International Advisory Board** of the “Solar Energy for World Peace Conference” in Istanbul Turkey, 17-19.08.2013.

-**Publisher** of ANSOLE NEWS

-Evangelical christian

-like cooking, dancing, swimming, playing table tennis, reading and travelling

## REFERENCES

**Prof. Dr. Dr. hc Niyazi Serdar Sariciftci**

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Altenbergerstr. 69, 4040 Linz, Austria, Tel: +43-732-2468 8753, Email: [serdar.sariciftci@jku.at](mailto:serdar.sariciftci@jku.at)

**Dr. Ralph Gebauer**

The Abdus Salam International Centre for Theoretical Physics (ICTP)  
Strada Costiera 11, 34014 Trieste, Italy, Tel: +390402240344, Email: [rgebauer@ictp.it](mailto:rgebauer@ictp.it)

**Prof. Dr. César Kapseu**

## List of Publications

### *Book*

„Energies Renouvelables en Afrique Subsaharienne“ César Kapseu, Noël Djongyang, George Elambo Nkeng, Maturin Petsoko, Daniel Ayuk Mbi Egbe, Edition Harmattan, ISBN: 978-2-296-99102-6

### *Refereed Publications*

#### 2014

- [86] **Effect of side-chains on charge transport of anthracene-based PPE-PPV copolymers**  
Tinti, F.; Sabir, F. K.; Gazzano, M.; Righi, S.; Usluer, Ö.; Ulbricht, C.; Yohannes, T.; Egbe, D. A. M.; Camaioni, N., *Macromol. Chem. Phys.* **2014**, DOI: 10.1002/macp.201300611
- [85] **Improvement in photovoltaic performance of anthracene-containing PPE-PPV polymer-based bulk heterojunction solar cells with silver nanoparticles.** Tore, N.; Parlak E. A.; Tumay, T. A.; Kavak P.; Sarioglan S.; Bozar, S.; Günes, S.; Ulbricht, C.; Egbe, D. A. M., *J Nanopart Res* **2014**, *16*, 2298
- [84] **Anthracene-Containing Conjugated Polymer Showing Four Optical Transitions Upon Doping: a Spectroscopic Study**  
Gasiorowski, J.; Boudiba, S.; Hingerl, K.; Ulbricht, C.; Fattori, V.; Tinti, F.; Camaioni, N.; Menon, R.; Schlager, S.; Boudida, L.; Sariciftci, N. S.; Egbe, D. A. M., *Journal Polym. Sci: Polym. Phys* **2014**, *52*, 338-346. (front cover)
- [83] **An efficient organic inverted solar cell with AnE-PVstat:PCBM active layer and V<sub>2</sub>O<sub>5</sub>/Al anode**  
Kösemen, A.; Tore, N.; Parlak A. E.; Kösemen, Z. A.; Ulbricht, C.; Usluer, Ö, Egbe, D. A. M.; Yerlia, Y.; Sana, S. E. *Solar Energy* **2014**, *99*, 88-94.
- [82] **Multiple stress degradation analysis of the active layer in organic photovoltaics**  
Turkovic, S.; Engmann, S.; Egbe, D. A. M.; Himmerlich, M.; Krischok, S.; Gobsch, G.; Hoppe, H., *Sol. Energy Mater. Sol. Cells* **2014**, *120*, 654-668.

#### 2013

- [81] **Franck-Condon analysis of the photoluminescence spectra of atriple-bond containing polymer as a solution and as a thin film**  
Saidania, M. A.; Benfredja, A.; Ben Hameda, Z.; Romdhane, S.; Ulbricht, C.; Egbe, D.A.M.; Bouchrihaa, H.; *Synthetic Metals* **2013**, *184*, 83–85.
- [80] **Organic Bulk Heterojunction Solar Cells Based on P3HT and Anthracene-Containing PPE-PPV: Fabrication, Characterization and Modeling**  
Aazou, S.; Ibral, A.; White, M. S.; Kaltenbrunner, M.; Glowacki, E. D.; Egbe, D. A. M.; Sariciftci, N. S.; Assaid, E. M. *Journal of Optoelectronics and Advanced Materials* **2013**, *13*, 395-404.
- [79] **Ultrathin, highly flexible, and stretch-compatible PLEDs**  
White, M. S.; Kaltenbrunner, M.; Glowacki, E. D.; Kettlgruber, G.; Graz, I.; Aazou, S.; Ulbricht, C.; Egbe, D. A. M.; Scharber, M.; Sekitani, T.; Someya, T.; Bauer, S.; Sariciftci, N. S. *Nature Photonics* **2013**, *7*, 811-816

**[78] Electro- and photochemistry of rhenium and rhodium complexes for CO<sub>2</sub> and proton reduction – a mini review**

Portenkirchner, E.; Oppelt, K.; Egbe, D. A. M.; Knör, G.; Sariciftci, N. S. *Nanomaterials and Energy* **2013**, *3*, 134-147.

**[77] Improved Phase Separation in Polymer Solar Cells by Solvent Blending**

Kästner, C.; Muhsin, B.; Wild, A.; Rathgeber, S.; Egbe, D. A. M.; Hoppe, H.; *J. Polym. Sci., Part B: Polym. Phys* **2013**, *51*, 868-874.

**[76] Tuning the properties of an anthracene-based PPE-PPV copolymer by fine variation of its macromolecular parameters**

Tinti, F.; Sabir, F. K.; Gazzano, M.; Righi, S.; Ulbricht, C.; Usluer, O.; Pokorna, V.; Cimrova, V.; Yohannes, T.; Egbe, D. A. M.; Camaioni, N.; *RSC Adv.* **2013**, *3*, 6972-6980.

**[75] Improvement of photovoltaic performance by ternary blending of amorphous and semi-crystalline polymer analogues with PCBM**

Kästner, C.; Rathgeber, S.; Egbe, D. A. M.; Hoppe, H. *J. Mater. Chem. A* **2013**, *1*, 3961–3969.

**[74] Improved photovoltaic performance of PPV-based copolymer using optimized fullerene based counterparts**

Troshin, P. A.; Mukhacheva, O. A.; Usluer, Ö.; Goryachev, A. E.; Akkuratov, A. V.; Susarova, D. K.; Dremova, N. N.; Rathgeber, S.; Sariciftci, N. S.; Vladimir F. Razumov, V. F., Egbe, D. A. M. *Adv. Energy Mater.* **2013**, *3*, 161-166.

**2012**

**[73] Polymer BHJ solar cell performance tuning by C60 fullerene derivative alkyl side-chain length**

Kästner, C.; Ulbricht, C.; Egbe, D. A. M.; Hoppe, H. *J. Polym. Sci. Polym. Phys.* **2012**, *50*, 1562-1566.

**[72] Material structure – composite morphology-photovoltaic performance relationship for organic bulk heterojunction solar cells**

Troshin, P. A.; Olga A. Mukhacheva, O. A.; Andrey E. Goryachev, A. E.; . Dremova, N. N.; Dmitry Voylov, D.; Ulbricht, C.; . Egbe, D. A. M.; Sariciftci, N. S.; F. Razumov, V. F. *ChemComm* **2012**, *48*, 9477-9479.

**[71] Electron and hole transport in an anthracene-based conjugated polymer**

Camaioni, N.; Tinti, F.; Esposti, A. D.; Righi, S.; Usluer, Ö, Boudiba, S.; Egbe, D. A. M. *Applied Physics Letters* **2012**, *101*, 053302-1-3. (*APL: Org. Electron. Photonics*, **2012**, *5*, 165)

**[70] Electrocatalytic and photocatalytic reduction of carbon dioxide to carbon monoxide using the alkynyl-substituted rhenium(I) complex (5,5'-bisphenylethynyl-2,2'-bipyridyl)Re(CO)<sub>3</sub>Cl**

Portenkirchner, E.; Oppelt, K.; Ulbricht, C.; Egbe, D. A. M.; Neugebauer, H.; Günther Knör, G.; Sariciftci, N. S. *J. Organomet. Chem.* **2012**, *716*, 19-25.

**[69] Morphology evaluation of a polymer-fullerene bulk heterojunction ensemble generated by the fullerene derivatization**

Kästner, C.; Susarova, D. K.; Ulbricht, C.; Jadhav, R.; Egbe, D. A. M.; Rathgeber, S.; Troshin, P.; Hoppe, H. *J. Mater. Chem.* **2012**, *22*, 15987-15997.

**[68] Effect of blend ratio on poly(*p*-phenylene-ethynylene)-*alt*-poly(*p*-phenylene-vinylene) polymer solar cell**

Tore, N.; Parlak, E. A.; Usluer, Ö.; Egbe, D. A. M.; San, S. E.; Aydogan, P. *Sol. Energy Mater. Sol. Cells* **2012**, *104*, 39-44.

**[67] Charge Carrier Mobility, Photovoltaic and Electroluminescent Properties of Anthracene-Based Conjugated Polymers Bearing Randomly Distributed Side-Chains**

Usluer, Ö.; Kästner, C.; Abbas, M.; Ulbricht, C.; Cimrova, V.; Wild, A.; Birckner, E.; Tekin, N.; Sariciftci, N. S.; Hoppe, H.; Rathgeber, S.; Egbe, D. A. M. *J. Polym. Sci. Polym. Chem.* **2012**, *50*, 3425-3436.

**[66] Bulk Heterojunction and Inverted Type Solar Cells Using a CN-PPV Derivative**

Cevik, E.; Ilicali, D.; Egbe, D. A. M.; Günes, S. *Sol. Energy Mater. Sol. Cells* **2012**, *98*, 94-102.

**2011**

**[65] African Network for Solar Energy: Bridging Africans in Solar Energy Research**

Egbe, D. A. M. *AJSTID* **2011**, *3*, 226-229.

**[64] Photo-induced electron transfer in P3DDT, P3OT, M3EH-PPV conjugated polymers blended with maleic anhydride in THF solution under UV flash photolysis studied by means of CW TR ESR**

Konkin, A.; Aganov, A.; Roth, H.-K.; Ritter, U.; Scharff, P.; Sariciftci, N. S.; Egbe, D. A. M. *Applied Magnetic Resonance* **2011**, *41*, 195-203.

**[63] Polymer Solar Cells**

Günes, S.; Egbe, D. A. M.; Sariciftci, N. S. *Encyclopedia of Polymer Science and Technology*, DOI:10.1002/0471440264.pst545

**[62] Correlation between polymer architecture, mesoscale structure and photovoltaic performance in side-chain-modified poly(*p*-arylene-ethynylene)-alt-poly(*p*-arylene-vinylene): PCBM bulk-heterojunction solar cells**

Rathgeber, S.; Perlich, J.; Kühnlenz, F.; Türk, S.; Egbe, D. A. M.; Hoppe, H.; Gehrke, R. *Polymer* **2011**, *52*, 3819-3826.

**[61] Organic Bulk Heterojunction Solar Cells Based on Poly(*p*-Phenylene-Vinylene) Derivatives**

Yumusak, C.; Sariciftci, N. S.; Egbe, D. A. M., Book chapter in "Solar Cells / Book 4", ISBN 979-953-307-193-9.

**[60] Alkoxy-Substituted Poly(arylene-ethynylene)-alt-poly(arylene-vinylene)s: Synthesis, Electroluminescence and Photovoltaic Applications**

Egbe, D. A. M.; Neugebauer, H.; Sariciftci, N. S. *J. Mater. Chem.* **2011**, *21* (5), 1338 – 1349.

**[59] Luminescence and Spectroscopic Studies of Organometallic Rhodium and Rhenium Multichromophore Systems Carrying Polypyridyl Acceptor Sites and Phenylethynyl Antenna Subunits**

Oppelt, K.; Egbe, D. A. M.; Monkowius, U.; Zabel, M.; Sariciftci, N. S.; Knör, G. *J. Organomet. Chem.* **2011**, *696*, 2252-2258.

**[58] Mobility and Photovoltaic Performance Studies on Polymer Blends: Effects of Side Chains Volume Fraction**

Adam, G.; Pivrikas, A.; Ramil, A. M.; Tadesse, S.; Yohannes, T.; Sariciftci, N. S.; Egbe, D. A. M., *J. Mater. Chem.* **2011**, *21* (8), 2594 – 2600.

**[57] Photovoltaic Performance of PPE-PPV Copolymers: Effect of the Fullerene Component**

Susarova, D. K.; Khakina, E. A.; Troshin, P. A.; Goryachev, A. E.; Sariciftci, N. S.; Razumov, V.; Egbe, D. A. M., *J. Mater. Chem.* **2011**, *21*, 2356-2361.

**2010**

**[56] Fluorene-Carbazole Dendrimers: Synthesis, Thermal, Photophysical and Electroluminescent Device Properties**

Usluer, O.; Demic, S.; Egbe, D. A. M.; Birckner, E.; Tozlu, C.; Pivrikas, A.; Ramil, A. M.; Sariciftci, N. S. *Adv. Funct. Mater.* **2010**, *20*, 4152-4161.



**[55] Improvement in Carrier Mobility and Photovoltaic Performance Through Random Distribution of Segments of Linear and Branched Side Chains**

Egbe, D. A. M.; Adam, G.; Pivrikas, A.; Ramil, A. M.; Birckner, E.; Cimrova, V.; Hoppe, H.; Sariciftci, N. *S. J. Mater. Chem.* **2010**, *20*, 9726-9734.

**[54] Photo-induced charge separation process in (C120-O-PCBM)/(M3EH-PPV)blend solid film studied by means of X, K- bands ESR at 77 and 120 K**

Konkin, A.; Ritter, U.; Scharff, P.; Weber, L.; A. Aganov, A.; Sariciftci, N. S.; Egbe, D. A. M. *Synth. Met.* **2010**, *160*, 485-489.

**[53] Effect of shifting of aromatic rings on charge carrier mobility and photovoltaic response of anthracene and thiophene-containing MEH-PPE-PPVs**

Günes, S.; Wild, A.; Cevik, E.; Pivrikas, A.; Schubert, U.S.; Egbe, D. A. M. *Sol. Energy Mater. Sol. Cells* **2010**, *94*, 484-491.

**[52] Anthracene Based Conjugated Polymers: Correlation between  $\pi$ - $\pi$ -Stacking Ability, Photophysical Properties, Charge Carrier Mobility, and Photovoltaic Performance**

Egbe, D. A. M.; Türk, S.; Rathgeber, S.; Kühnlenz, F.; Jadhav, R.; Wild, A.; Birckner, E.; Adam, G.; Pivrikas, A.; Cimrova, V.; Knör, G.; Sariciftci, N. S.; Hoppe, H. *Macromolecules* **2010**, *43*, 1261-1269

**[51] Intercorrelation between Structural Ordering and Emission Properties in Photoconducting Polymers**

Rathgeber, S.; Bastos de Toledo, D.; Birckner, E.; Hoppe, H.; Egbe, D. A. M. *Macromolecules* **2010**, *43*, 306-315.

**2009**

**[50] Anthracene-Containing PPE-PPV Copolymers: Effect of Side-Chain Nature and Length on Photophysical and Photovoltaic Properties**

Jadhav, R.; Türk, S.; Kühnlenz, F.; Cimrova, V.; Rathgeber, S.; Egbe, D. A. M.; Hoppe, H. *Phys. Status Solidi A* **2009**, *12*, 2695-2699. (Front cover illustration)

**[49] Arylene-Ethynylene/Arylene-Vinylene Copolymers: Synthesis and Structure-Property Relationships**

Egbe, D. A. M.; Carbonnier, B.; Birckner, E.; Grummt, U.-W. *Prog. Polym. Sci.* **2009**, *34*, 1023-1067.

**[48] Anthracene and thiophene containing MEH-PPE-PPVs: Synthesis and Study of the Effect of the Aromatic Ring Position on the Photophysical and Electrochemical Properties**

Wild, A.; Egbe, D. A. M.; Birckner, E.; Cimrova, V.; Baumann, R.; Grummt, U.-W.; Schubert, U. *S. J. Polym. Sci. Part A: Polym. Chem.* **2009**, *47*, 2243-2261.

**[47] Photophysical properties of PPP and PPV derivatives bearing polystyrene and polycaprolactone as side groups**

Colak, D. G.; Egbe, D. A. M.; Birckner, E.; Yurteri, S.; Cianga, I.; Tekin, E.; Schubert, U. S.; Yagci, Y. *Eur. Polym. J.* **2009**, *45*, 940-945.

**2008**

**[46] Synthesis and micellization of coil-rod-coil ABA ruthenium(II)-terpyridine triblock-copolymers**

Chiper, M.; Winter, A.; Hoogenboom, R.; Egbe, D. A. M.; Wouters, D.; Meier, M. A. R.; Hoepfener, S.; Fustin, C.-A.; Gohy, J.-F.; Schubert, U. S. *Macromolecules* **2008**, *41*, 8823-8831.

**[45] Anthracene- and thiophene-containing poly(-p-arylene-ethynylene)/poly(-p-arylene-vinylene)s: Towards optimized structures for photovoltaic applications**



Egbe, D. A. M.; Wild, A.; Birckner, E.; Grummt, U.-W.; Schubert, U. S. *Macromolecular Symposia* **2008**, *268*, 25-27.

**[44] Effect of Side Chain Length Variation on the Optical Properties of PPE-PPV Hybrid Polymers**

Tekin, E.; Egbe, D. A. M.; Kranenburg, J. M.; Ulbricht, C.; Rathgeber, S.; Birckner, E.; Rehmann, N.; Meerholz, K.; Schubert, U. S. *Chem. Mater.* **2008**, *20*, 2727-2735.

**2007**

**[43] Effect of Styryl Side Groups on the Photophysical Properties and Hole Mobility of PPE-PPV Systems**

Egbe, D. A. M.; Tekin, E.; Birckner, E.; Pivrikas, A.; Sariciftci, N. S.; Schubert, U. S. *Macromolecules* **2007**, *40*, 7786-7794.

**[42] Effect of Annealing on the Characteristics of Organic Solar Cells: Polymer Blends with a 2-Vinyl-4,5-Dicyanoimidazole Derivative**

Kietzke, T.; Shin, R. Y. C.; Egbe, D. A. M.; Chen, Z.-K.; Sellinger, A. *Macromolecules* **2007**, *40*, 4424-4428.

**[41] Rigid  $\pi$ -Conjugated Mono-, Bis-, and Tris(2,2':6',2''-terpyridines)**

Winter, A.; Egbe, D. A. M.; Schubert, U. S. *Org. Lett.* **2007**, *9*, 2345-2348

**[40] Combined Effects of the Conjugation Pattern and Alkoxy Side Chains on the Photovoltaic Properties of Thiophene-Containing PPE-PPVs**

Egbe, D. A. M.; Nguyen, L. H.; Schmidtke, K.; Wild, A.; Guenes, S.; Sieber, C.; Sariciftci, N.S. *J. Polym. Sci. Part. A: Polym. Chem.* **2007**, *45*, 1619-1631.

**2006**

**[39] Film thickness dependency of the emission colors of PPE-PPVs in inkjet printed library.**

Tekin, E.; Wijlaars, H.; Holder, E.; Egbe, D. A. M.; Schubert, U. S. *J. Mater. Chem.* **2006**, *16*, 4294-4298.

**[38] Photophysical, Electrochemical and Photovoltaic Properties of Thiophene-Containing Arylene-Ethynylene/Arylene-Vinylene Polymers**

Egbe, D. A. M.; Nguyen, L. H.; Mühlbacher, D.; Hoppe, H.; Schmidtke, K.; Sariciftci, N. S. *Thin Solid Films* **2006**, *511-512*, 486-488.

**[37] Comparative Study of M3EH-PPV based Bi-layer Photovoltaic Devices**

Kietzke, T.; Egbe, D. A. M.; Hörhold, H.-H.; Neher, D. *Macromolecules* **2006**, *39*, 4018-4022.

**2005**

**[36] Side Chains Influence on Electrochemical and Photovoltaic Properties of Yne-Containing Poly(Phenylene-Vinylene)s**

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Egbe, D. A. M., Carbonnier, B.; Paul, E. L.; Mühlbacher, D.; Kietzke, T.; Birckner, E.; Neher, D.; Grummt, U.-W., Pakula, T. *Macromolecules* **2005**, *38*, 6269-6275.

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Zhokhavets, U.; Goldhahn, R.; Gobsch, G.; Al-Ibrahim, M.; Roth, H.-K.; Sensfuss, S.; Klemm, E.; Egbe, D. A. M. *Thin Solid Films* **2003**, *444*, 215-220.

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[7] **Model systems for rod-like polyheteroarylethynylenes**

Göller, A.; Grummt, U.-W.; Birckner, E.; Klemm, E.; Egbe, D. A. M. *Int. J. Quantum Chem.* **2001**, *84*, 86-98.

[6] **Photophysical properties of fluorescent polymers containing 1,10-phenanthroline-3,8-ylene and diethynylene units and their model compounds: A comparison to 2,2'-bipyridine analogues**

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## *Non-Refereed Publications*

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[26] **Anthracene- and Thiophene-Containing PPE-PPVs: Improvement of Charge Carrier Mobility and Photovoltaic Performance Through Side Chains Manipulations**

Egbe, D. A. M.; Usluer, Ö, Adam, G.; Pivrikas, A.; Ulbricht, C.; Rathgeber, S.; Hoppe, H.; Sariciftci, N. S. Sonderausgabe Makromolekulares Kolloquium Freiburg 24.-26.02. 2011, Abstract **F96-F97** in special issue of *Macromol. Rapid Commun.* **2011**, Vol. *32*. (ISSN 1022-1336. MRCOE3 32 (2) 105-248 (2011) Vol.32, No. 2 January 17, 2011.

[25] **Improvement in Carrier Mobility and Photovoltaic Performance Through Random Distribution of Segments of Linear and Branched Side Chains**

Egbe, D. A. M.; Adam, G.; Pivrikas, A.; Ulbricht, C.; Ramil, A. M.; Sariciftci, N. S.; Hoppe, H.; Rathgeber, S. Proceedings "Polymeric Materials 2010, Halle, September 15-17, 2010, ISBN 978-3-86829-282-4.

[24] **Relationship between  $\pi$ - $\pi$ -Stacking Distance, Charge Carrier Mobility and Photovoltaic Performance**

Egbe, D. A. M.; Rathgeber, S.; Hoppe, H.; Adam, G.; Pivrikas, A.; Ulbricht, C.; Sariciftci, N. S. Abstract Book "International Conference on Science and Technology of Synthetic Metals (ICSM) 2010" Kyoto, Japan, July 4-9, 2010, page 188.

[23] **Amphiphilic well-defined ABA ruthenium(II)-bis-terpyridine block copolymers**

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[22] **Side Chains Effects on the Electroluminescent and Photovoltaic Properties of PPE-PPV Hybrid Polymers**

Egbe, D. A. M.; Wild, A.; Türk, S.; Pivrikas, A.; Günes, S.; Blaudeck, T.; Sariciftci, N. S.; Baumann, R. Program and Abstracts Book of The 7th International Conference on Electroluminescence of Molecular Materials and Related Phenomena, Dresden, 02-06. Sept. 2008, page 112.

[21] **Combined Effects of Alkoxy Side Chains and Film Thickness on the Properties of Inkjet Printed Libraries of PPE-PPV Copolymers**

Egbe, D. A. M.; Tekin, E.; Blaudeck, T.; Schubert, U. S.; Baumann, R. Book of Abstracts: „1st International Symposium on Flexible Organic Electronics“, 8-11 July 2008, Halkidiki, Greece, page 13.

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[18] **Polymers for Photovoltaic Applications: What can we learn from PPE-PPV Systems ?**

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[17] **Poly(arylene-ethynylene)-*alt*-poly(arylene-vinylene)s for organic photovoltaic applications**

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[16] **New metallo-supramolecular architectures based on polymers functionalized and rigid  $\pi$ -conjugated terpyridine**

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[15] **Rigid  $\pi$ -conjugated 2,2':6',2''-terpyridines as building blocks for new supramolecular assemblies**

Winter, A.; Chiper, M.; Tekin, E.; Egbe, D. A. M.; Schubert, U. S. *Polymer Preprints* **2007**, *48*, 633-634.

[14] **Thiophene-Containing Poly(-p-arylene-ethynylene)-*alt*-poly(-p-arylene-vinylene)s: Concerted Effects of Alkoxy Side Chains and Conjugation Pattern**

Egbe, D. A. M.; Schmidtke, K.; Wild, A.; Nguyen, H.; Sieber, C.; Schubert, U. S.; Sariciftci, N. S. in „Thüringer Werkstofftag 2006, Polymere in Thüringen“ T. Keller, K. D. Jandt, Eds., Verlag Dr. Köster, Berlin 2006, ISBN 978-3-89574-606-2, pages 68-73.

[13] **Effects of Side Chains on the Electrochemical and Photovoltaic Properties of Yne-Containing PPV's.**

Egbe, D. A. M.; Schmidtke, K.; Nguyen, L. H.; Mühlbacher, D.; Sariciftci, N. S. International Symposium Technologies for Polymer Electronics TPE 06, 16 - 18 May 2006, Rudolstadt/Germany. *Proceedings TPE06*, pages 88-89.

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Schmidtke, K.; Carbonnier, B.; Nguyen, L. H.; Hoppe, H.; Mühlbacher, D.; Sariciftci, N. S.; Egbe, D. A. M. Makromolekulares Kolloquium Freiburg, 23.- 25. Februar 2006. Abstract **F50** in special issue of *Macromolecular Bioscience*. **2006**, Vol. 6. Febr.10, ISSN 1616-5187.

[11] **CN-Containing Phenylene-Ethynylene/Phenylene-Vinylene Hybrid Polymers: Synthesis, Characterization and Photophysical, Electrochemical, Electroluminescent and Photovoltaic Properties**

D. A. M. Egbe, T. Kietzke, D. Mühlbacher, H.-H. Hörhold, D. Neher. Makromolekulares Kolloquium Freiburg 24.-26. Februar 2005, Abstract **F72** in special issue of *Macromol. Rapid Commun.* **2005**, Vol. 26. Febr.3.

[10] **LESR and <sup>1</sup>H NMR Registration of Photogenerated Radicals in PPV Donor Type Polymer in Solution**

Konkin, A.; Aganov, A.; Schroedner, M.; Natzmutdinova, G.; Egbe, D. A. M., Sensfuss, S.; Roth, H.-K. International Symposium Technologies for Polymer Electronics TPE 04, 28- 30 September 2004, Rudolstadt-Germany. *Proceedings TPE 04*, pages 193-195.

[9] **Large Area Polymer Solar Cells on Flexible Substrates**

Sensfuss, S.; Al-Ibrahim, M.; Schache, H.; Konkin, A.; Roth, H.-K.; Egbe, D. A. M., Apsel, F.; Miethe, U.; Herzau-Gerhardt, U. International Symposium Technologies for Polymer Electronics TPE 04, 28- 30 September 2004, Rudolstadt-Germany. *Proceedings TPE 04*, pages 35-39.

[8] **CN-free and CN-containing Well Defined Hybrid Arylene-Ethynylene/ Arylene-Vinylene Polymers**

Egbe, D. A. M. International Symposium Technologies for Polymer Electronics TPE 04, 28- 30 September 2004, Rudolstadt-Germany. *Proceedings TPE 04*, pages 11-15.

[7] **Effects of intramolecular architecture and intermolecular interaction on the supramolecular organization of rigid-rod main chain liquid crystalline polymers in bulk**

B. Carbonnier, T. Pakula, D. A. M. Egbe, IUPAC World Polymer Congress Macro 2004, 40<sup>th</sup> International Symposium on Macromolecules , July 4-9. 2004, Paris-France, <http://www.e-polymers.org/paris/data/L2968.pdf>

[6] **Alkyl and/or alkoxy substituted defect-free arylene-ethynylene/arylene-vinylene hybrid polymers: Synthesis and photophysical properties**

D. A. M. Egbe, S. Sell, C. Ulbricht, S. Voigt, IUPAC World Polymer Congress Macro 2004, 40<sup>th</sup> International Symposium on Macromolecules , July 4-9. 2004, Paris-France, <http://www.e-polymers.org/paris/data/L1286.pdf>

[5] **Structure investigations of main chain liquid-crystal polymers**

Carbonnier, B.; Pakula, T.; Egbe, D. A. M. NATO\_ASI on Modification and Blending of Synthetic and Natural Polymer Macromolecules, Tirrenia-Pisa, Italy, October 2003, *e-Polymers* **2004**, P\_034.([http://www.e-polymers.org/papers/P4\\_010704.pdf](http://www.e-polymers.org/papers/P4_010704.pdf))

[4] **Arylene-Vinylene/Arylene-Ethynylene Copolymers: Synthesis, Characterisation and Photovoltaic Applications**

Egbe, D. A. M.; Klemm, E.; Carbonnier, B.; Pakula, T.; Sensfuss, S.; Al-Ibrahim, M.; Konkin, A.; Hoppe, H.; Sariciftci, N. S. Makromolekulares Kolloquium Freiburg 26.-28. Februar 2004, Abstract **F49** in special issue of *Macromol. Rapid Commun.* **2004**, Vol. 25. Febr.3.

[3] **Optical and electrochemical measurements looking for new donor-acceptor pairs and their application in polymer solar cells**

Al-Ibrahim, M.; Sensfuss, S.; Roth, H.-K.; Zhohavets, U.; Egbe, D. A. M.; Klemm, E.; Knedlik, C. *48. Internationales Wissenschaftliches Kolloquium-Technische Universität Ilmenau* 22.-25.09. 2003, Tagungsband S. 229-230.

[2] **Comparison of the photophysical properties of diyne-free and diyne-containing hybrid phenyleneethynylene/phenylenevinylene polymers**

Egbe, D. A. M.; Klemm, E.; Birckner, E.; Grummt, U.-W.; Hotzel, M. *48. Internationales Wissenschaftliches Kolloquium-Technische Universität Ilmenau* 22.-25.09. 2003, Tagungsband. S. 251-252.

[1] **Optical and ESR studies on polymer/fullerene composites for solar cells.**

S. Sensfuss, A. Konkin, M. Al-Ibrahim, H.-R. Roth, U. Zhokhavets, G. Gobsch, D. A. M. Egbe, E. Klemm, *Proceedings of International Polyscene-Workshop on Polymer Electronics, 04-05.11.2002, München*, pages 47-50.

## Lectures and Posters

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### 2014

[128] **African Network for Solar Energy: Bridging Africans in Capacity Building and Use of Sustainable Energy Sources and Technologies**

Egbe, D. A. M.; L'Atelier International Sur Les Énergies Renouvelables Et L'Efficacité Énergétiques, 19-20 Mars 2014, Université de Fès, Fes, Morocco/ **Invited Lecture**

### 2013

[127] **20 Jahre Zusammenarbeit in der spektroskopischen Untersuchung von Halbleitermaterialien für organische Photovoltaik**

Egbe, D. A. M., 3rd General Assembly of ANSOLE e.V. and Celebration of the 65th Birthday of Dr. Eckhard Birckner, 23.11.2013, Rosensäle, FSU Jena, Jena, Germany/ **Organiser of the event**

[126] **Material Design in Organic Solar Cells: A Case Study on Poly(arylene-ethynylene)-*alt*-poly(arylene-vinylene)s**

Egbe, D. A. M., Regional Workshop on Materials Science for Solar Energy Conversion, 4-8 November 2013, iThemba Labs- National Research Foundation (SA), Cape Town South Africa/ **Coorganiser of the event**

[125] **African Network for Solar Energy: Exactly 3 years from Sousse Tunisia to Cape Town, South Africa. What next?**

Egbe, D. A. M.; Regional Workshop on Materials Science for Solar Energy Conversion, 4-8 November 2013, iThemba Labs- National Research Foundation (SA), Cape Town South Africa/ **Coorganiser of the event**

[124] **Africa –EU Renewable Energy Programme (RECP) Workshop “Technical and Vocational Training and Education for Renewable Energy Sector in Africa”** 16-17.10.2013, Maputo, Mozambique / **participant**

[123] **Organic Semiconducting Polymers for Optoelectronic Applications: A Case Study on Poly(arylene-ethynylene)-*alt*-poly(arylene-vinylene)s:**

Egbe, D. A. M. Journées d'Études des Matériaux Polymères (JEMP'2013) Bejaia, Algeria 2-3 October 2013/ **Plenary Lecture**

[122] **Synthesis and Physical Properties of an Anthracene Containing PPE-PPV**

Boudiba, S.; Gasiorowski, J.; Ulbricht, C.; Hingerl, K.; Fattori, V.; Tinti, F.; Camaioni, N.; Reghu Menon, R.; Schlager, S.; Bouguessa, S.; Gouasmia, A.; Boudiba, L.; Niyazi S. Sariciftci, N. S.;



Egbe, D. A. M., Solar Energy for World Peace Conference, Istanbul Turkey, 17.-19.08.2013/**Poster**

[121] **Panel Discussion “Solar Energy and Development in Africa”**

Egbe, D. A. M., Solar Energy for World Peace Conference, Istanbul Turkey, 17-19.08.2013/**Moderator**

[120] **Tuning of Photovoltaic Performance by Alkoxy Side Chains and Fine Tuning of Macromolecular Parameters of Anthracene Based PPE-PPV**

Egbe, D. A. M., Yildiz Technical University, Istanbul Turkey, 15.08.2013/ **Invited Lecture**

[119] **Design Principles of Organic Materials for Solar Cell Applications**

Egbe, D. A. M., ANSOLE Mini-Symposium in Kenya (AMSK 2013), 9. May 2013, University of Nairobi, Nairobi Kenya/**Keynote Lecture**

[118] **African Network for Solar Energy: (ANSOLE): *Bridging Africans in Capacity Building and Use of Sustainable Energy Sources and Technologies***

Egbe, D. A. M., 3rd RUAD-EURD Conference 2013: TU-Berlin, 13. April 2013, Berlin Germany/ 20. Internationale Solarkochertagung, Altötting, 20.-21. April 2013, Alötting, Germany/ICSU Regional Implementation Workshop on Sustainable Energy in sub-Saharan Africa, 7 – 8 May 2013, Nairobi, Kenya/Solar Energy for World Peace, Istanbul, Turkey, 17-19.08.2013/ **Invited Lectures**

[117] **Design Principles of Organic Materials for Solar Cell Applications (+Side Chains Effects on Photovoltaic Response of Anthracene-Containing PPE-PPVs)**

Egbe, D. A. M., Faculté des Sciences de Bizerte, 7. Feb. 2013, Bizerte, Tunisia/Faculté des Sciences de Tunis El Manar, 9. Feb. 2013, Tunis, Tunisia/Centre National de Recherche des Sciences de Matériaux de Borj Cédria, 12. Feb. 2013, Borj Cédria, Tunisia/ **Invited Lectures**

2012

[117] **African Network for Solar Energy: (ANSOLE): Promoting Low Cost Appropriate Solar Energy Technology in Africa**

Egbe, D. A. M. EWACC (Energy, Water, Climate Change) Building Bridges, 10.-12. Dec. 2012, Nicosia, Cyprus/ **Invited Lecture**

[116] **African Network for Solar Energy: (ANSOLE): Bridging Africans in Training, Education and Research**

Egbe, D. A. M. 5<sup>th</sup> International Conference on Appropriate Technology (ICAT), 20.-24. Nov. 2012, Pretoria, South Africa/ **Keynote Lecture**

[115] **Sonne-Wissenschaft-Energie**

Egbe, D. A. M. 62. WUS (World University Service)-Mitgliederversammlung, 9.-10. Nov. 2012, Leipzig, Germany/ **Keynote Lecture**

[114] **African Network for Solar Energy: (ANSOLE): Bridging Africans in Training, Education and Research**

Egbe, D. A. M. 1<sup>st</sup> EPS (European Physical Society) Conference on “Physics for Development”, 11.-12. Oct. 2012, Brussels, Belgium/ **Invited Lecture**

[113] **Side Chains Effects on the Photovoltaic Performance of Anthracene-Containing PPE-PPVs**

15th Holzbau Workshop (Annual Research Group Meeting of Prof .Dr. Dietrich Zahn, TU-Chemnitz, Germany), 8-10. Oct. 2012, Karlovy Vary, Czech Republic/ **Invited Lecture**

[112] **African Network for Solar Energy: (ANSOLE): Bridging Africans in Training, Education and Research**

Egbe, D. A. M. DÄSAV (Deutsch-Äthiopischer Studenten- und Akademikerverein) Äthiopien Konferenz, Oct. 5.-6. 2012, Francfort, Germany / **Lecture**

[111] **African Network for Solar Energy (ANSOLE): Bridging Africans in Training, Education and Research**

Egbe, D. A. M. SEPA-DESERTEC International Conference 2012, Education and Capacity Building for Renewable Energies, Sept 17-19, 2012 in Giessen, Germany/ **Invited Lecture**

[110] **African Network for Solar Energy: Bridging Africans in Capacity Building, Research and Use of Solar Energy**

Egbe, D. A. M. OE-A 8th General Assembly and 27th Working Group Meeting, 18 June 2012, Munich Germany/ **Invited Lecture**

[109] **Polymer-Based Organic Solar Cells: Efficient Tuning of Active Layer Nanomorphology Using Alkoxy Side Chains**

Egbe, D. A. M.; Boudiba, S.; Boudiba, L. 2<sup>nd</sup> International Symposium of Chemistry, Organic Materials and Renewable Energies, 28-29 May 2012, Tebessa Algeria / **Invited Lecture**

[108] **African Network for Solar Energy: Bridging Africans in Capacity Building, Research and use of Solar Energy**

Egbe, D. A. M.; 2<sup>nd</sup> International Symposium of Chemistry, Organic Materials and Renewable Energies, 28-29 May 2012, Tebessa Algeria/ **Invited Lecture**

[107] **Polymer-Based Organic Solar Cells: Efficient Tuning of Active Layer Nanomorphology Using Alkoxy Side Chains & African Network for Solar Energy: Bridging African in Capacity Building, Research and Use of Solar Energy**

Egbe, D. A. M. Advanced Workshop on Solar Energy Conversion, 21-23 May 2012, Bucharest, Romania/ **Invited lecture**

[106] **Polymer Solar Cells**

Egbe, D. A. M. International Workshop and Conference on Renewable Energy and Climate Change- Exploring Opportunities for Sustainable Development-IWCRECC-2012, April 05-07, 2012, Madurai, India / **Guest of Honour and Invited Lecture**

[105] **Material Design for Organic Solar Cells**

Egbe, D. A. M., ANSOLE DAYS 2012 “Solar Energy for Sustainable Development”, 17-19.2.2012, Yaounde Cameroon/ **Keynote Lecture**

[104] **Correlation between emission spectrum and diffusion rate using Franck-Condon analysis in solar cell polymers**

Saidani, M. A.; Usluer, Ö.; Hamed, Z. B.; Fredj, A. B.; Kouki, F.; Romdhane, S.; Egbe, D. A. M.; Bouchriha, H. ANSOLE DAYS 2012 “Solar Energy for Sustainable Development”, 17-19.2.2012, Yaounde Cameroon/ **Poster**

[103]. **Das Afrikanische Netzwerk für Solarenergie- Ein Beitrag zu nachhaltiger Entwicklung.**

Egbe, D. A. M. STUBE- Winterakademie über „Energiewende und Ressourcenknappheit. Was kommt statt Atomkraft und Öl?“ 18. Bis 22. 01.2012, Bad Homburg, Germany/ **Invited Lecture**

## 2011

[102] **Polymer-Based Organic Solar Cells: Tuning of Active Layer Nanomorphology and Enhancement of Photovoltaic Performance Using Alkoxy Side Groups**

Egbe, D. A. M. “Workshop on New Materials for Renewable Energy, 17-21 October 2011, The Abdus Salam International Centre for Theoretical Physics ( ICTP), Trieste, Italy/ **Invited Lecture**

[101] **Anthracene-Containing PPE-PPVs: Synthesis, Characterization, Photophysical, Electrochemical and Photovoltaic Properties**

Usluer, Ö.; Kästner, C.; Ulbricht, C.; Birkner, E.; Hoppe, H.; Rathgeber, S.; Cimrova, V.; Sariciftci, N. S.;

Egbe, D. A. M. “Workshop on New Materials for Renewable Energy, 17-21 October 2011, The Abdus Salam International Centre for Theoretical Physics ( ICTP), Trieste, Italy/**Poster**

**[100] Mobility and Photovoltaic Performance Studies on Polymer Blends: Effects of Side Chains Volume Fraction**

Adam, G.; Pivrikas, A.; Montaigne, A. R., Tadesse, S., Yohannes, T.; Sariciftci, N. S.; Egbe, D. A.M. “Workshop on New Materials for Renewable Energy, 17-21 October 2011, The Abdus Salam International Centre for Theoretical Physics ( ICTP), Trieste, Italy/**Poster**

**[99] Anthracene Based Conjugated Polymers: Improvement of Hole Mobility and Photovoltaic Performance through Random distribution of linear and Branched Side Chains**

Egbe, D. A. M., 14<sup>th</sup> Austrian Chemistry Days, September 26-29, 2011/**Lecture**

**[98] OLED Applications of Conjugated Polymers**

Egbe, D.A. M. TÜBİTAK - Ulusal Metroloji Enstitüsü (UME) Fotonik ve Elektronik Sensörler Laboratuvarı, Anibal Caddesi, TÜBİTAK Gebze Yerleşkesi, 41470 Gebze-KOCAELİ TURKEY, 06.07. 2011/ **Invited Lecture**

**[97] PPE-PPV Based Materials: Tuning of Optoelectronic Properties Using Alkoxy Side Chains**

Egbe, D. A. M., Scuola Internazionale Superiore Di Studi Avanzati, Trieste, Italy, 29.06.2011/ **Invited Lecture**

**[96] Controlling of the Interplay between Order and Disorder by Side-Chain Based Statistical (Block)-Copolymers for Photovoltaics: Synthesis of Materials**

Usluer, Ö.; Ulbricht, C.; Adam, G.; Birckner, E.; Rathgeber, S.; Kedir, F.; Camaioni, N.; Sariciftci, Egbe, D. A. M. DFG Schwerpunktprogramm (SPP1355)-Meeting in Veitshöchheim , 20-24.06.2011/ **Poster and Lecture**

**[95] Bulk Heterojunction Organic Solar Cells: Influence of Alkoxy Side Chains on Photovoltaic Performance of PPE-PPV Based Materials**

Egbe, D. A. M.; Institute of Physics, Technische Universität Freiberg, Freiberg Germany, 08.06.2011/ **Invited Lecture**

**[94] Influence of Alkoxy Side Chains on the Properties of PPE-PPV Based Materials**

Egbe, D. A. M. , Polymer und Soft-Matter Kolloquium, Martin –Luther Universität Halle-Wittenberg, Halle Germany, 07.06.2011/ **Invited Lecture**

**[91-93] African Network for Solar Energy (ANSOLE)**

Egbe, D. A. M., Symposium “Solar Energy for Science” DESY Hamburg, Germany, 19-20. May 2011/3<sup>rd</sup> Annual ICPC Nanonet Workshop in St. Petersburg, Russia, 24-25 April 2011/ Business and Social Forum at the Challenge Camerounais in Hamburg Germany, 10-12. June 2011/**Invited Lectures and Posters**

**[90] Polymer Bulk Heterojunction Solar Cells: Effect of Alkoxy Side Chains on Photovoltaic Performance of PPE-PPV Based Materials + Presentation of ANSOLE**

Egbe, D. A. M.; Congrès International sur les energies renouvelables et l’efficacité énergétique, Fes Maroc, 20-21 Avril 2011/ **Keynote lecture presented on both conference days**

**[89] PPE-PPV Polymers: Improvement of Charge Carrier Mobility and Photovoltaic Response Through Side Chains Manipulations**

Egbe, D. A. M., Consiglio Nazionale delle Ricerche, Istituto per la Sintesi Organica e la Fotoreattività, Via P. Gobetti 101, I-40129 Bologna, Italy, 11.04.2011/ **Invited Lecture**

**[88] Presentation of ANSOLE (African Network for Solar Energy)**

Egbe, D. A. M. Première Rencontre des Professionnels du Solaire, Ministère de l’Energie et de l’Eau, Yaoundé Cameroon, 01.04.2011/**Organiser of the meeting and keynote lecture**

[87] **Anthracene- and Thiophene-Containing PPE-PPVs: Improvement of Charge Carrier Mobility and Photovoltaic Performance Through Side Chains Manipulations**  
Egbe, D. A. M.; Usluer, Ö, Adam, G.; Pivrikas, A.; Ulbricht, C.; Rathgeber, S.; Hoppe, H.; Sariciftci, N. S. Sonderausgabe Makromolekulares Kolloquium Freiburg 24.-26.02. 2011/ **Invited Lecture**

[86] **Anthracene and Thiophene Containing Photoactive Polymers: Improvement of Charge Carrier Mobility and Photovoltaic Response Through Side Chains Manipulations**  
Egbe, D. A. M. Medientechnischen Kolloquium, Institute for Print and Media Technology, Chemnitz University of Technology, Germany, 04.01.2011/ **Invited Lecture**

## 2010

[85] **Influence of Alkoxy Side Groups on Photovoltaic Performance of PPE-PPV Based Materials**  
Egbe, D. A. M., ICPCNANONET: Webinar on Nanotechnology for Solar Energy, 20.12.2010/**Invited Lecture**

[84] **Bulk Heterojunction Solar Cells: Side Chains Effects on Photovoltaic Performance of PPE-PPV Based Materials**  
Egbe, D.A. M. TÜBİTAK - Ulusal Metroloji Enstitüsü (UME) Fotonik ve Elektronik Sensörler Laboratuvarı, Anibal Caddesi, TÜBİTAK Gebze Yerleşkesi, 41470 Gebze-KOCAELİ TURKEY, 10.12.2010/ **Invited Lecture**

[83] **Bulk Heterojunction Solar Cells**  
Egbe, D. A. M. International Conference on Conducting Materials (ICoCoM) 2010, 3-7 November 2010 Sousse, Tunisia/ **Invited Keynote Lecture**

[82] **Synthese und Struktur-Eigenschafts-Beziehungen von Poly(Arylen-Ethinylen)-*alt*-Poly(Arylen-Vinylen)-Copolymeren**  
Egbe, D. A. M. TU-Bergakademie Freiberg, Germany, 7.11.2010/**Invited Lecture**

[81] **Donor and Acceptor Materials of PPE-PPV Type: Synthesis and Properties**  
Egbe, D. A. M. Final Solar Ntype Meeting and Workshop, Alicante, Spain, 22<sup>nd</sup> -24<sup>th</sup> September 2010/**Invited Keynote Lecture**

[80] **Anthracene-Containing PPE-PPV: Improvement of Hole Mobility and Photovoltaic Performance Through Random Distribution of Linear and Branched Side Chains**  
Egbe, D. A. M.; Adam, G.; Pivrikas, A.; Ulbricht, C.; Ramil, A. M.; Rathgeber, S.; Hoppe, H.; Sariciftci, N. S. Polymeric Materials 2010, Halle, Germany September 15-17, 2010/lecture

[79] **Relationship between  $\pi\pi$ -Stacking Distance, Charge Carrier Mobility and Photovoltaic Performance**  
Egbe, D. A. M.; Rathgeber, S.; Hoppe, H.; Adam, G.; Pivrikas, A.; Ulbricht, C.; Sariciftci, N. S., International Conference on Science and Technology of Synthetic Metals 2010, Kyoto, Japan, July 4-9, 2010/ lecture

[78] **Side Chain Effects on the Properties of Poly(arylene-ethynylene)-*alt*-poly(arylene-vinylene)s**  
Egbe, D. A. M. African School on Nanoscience for Solar Energy Conversion, May 3-7, 2010, Akaki Campus, Addis Ababa University/ **Invited lecture**

[77] **„Lehrthematik: Designprinzipien von photovoltaisch aktiven organischen Molekülen“ and „Poly(arylen-Ethinylen)-*alt*-poly(arylen-Vinylen)e für Organische Photovoltaik: Einfluss der Seitenketten“**  
Egbe, D. A. M. Martin-Luther University Halle, Germany, May 3. 2010/ **Invited Lecture**

[76] **Effect of Side Chains on the Properties of Poly(arylene-ethynylene)-*alt*-poly(arylene-vinylene)s**  
Egbe, D. A. M. Weizmann Institute of Science, Rehovot, Israel, February 21. 2010/**Invited Lecture**

[75] „Lehrprobe: Elektrische Eigenschaften von Polymeren“ and „ Anthracenhaltige PPE-PPV für die Photovoltaik: Einfluss der Seitenketten“

Egbe, D. A. M. University of Applied Sciences Cologne, February 19. 2010/**Invited Lecture**

## 2009

[74] **Anthracene-Based PPE-PPVs for Solar Cell Applications: Effect of Side Chains Combination and Density**

Egbe, D. A. M.; Jadhav, R.; Birckner, E.; Pivrikas, A.; Cimrova, V.; Sariciftci, N. S.; Rathgeber, S.; Hoppe, H. Advanced Polymers Via Macromolecular Engineering (APME) 2009 conference, October 4-7, 2009, Dresden, Germany. /Lecture

[73] **Anthracene-Based PPE-PPVs for Solar Cell Applications: Effect of Side Chains Combination and Density**

Egbe, D. A. M.; Jadhav, R.; Birckner, E.; Pivrikas, A.; Cimrova, V.; Sariciftci, N. S.; Rathgeber, S.; Hoppe, H. Advanced Polymers Via Macromolecular Engineering (APME) 2009 conference, October 4-7, 2009, Dresden, Germany/**Lecture**

[72] **Third Generation Photovoltaics: A Contribution to the Solution of Present and Future Energy and Environmental Problems**

Egbe, D. A. M. Symposium “Anciens d’Allemagne: création d’entreprise dans le domaine de l’énergie renouvelable et l’environnement” of the Koordinationsbüro-Kamerun-Deutschland (KBK) , 24.-27.9.09, Yaoundé Cameroon/ **Invited Lecture**

[71] **Anthracene-Containing PPE-PPVs: Side Chains Effect on Charge Carrier Mobility and Photovoltaic Response**

Egbe, D. A. M.; Adam, G.; Jadhav, R.; Birckner, E.; Pivrikas, A.; Cimrova, V.; Sariciftci, N. S.; Hoppe, H.; Rathgeber, S. 42<sup>nd</sup> IUPAC World Chemistry Congress, 2-7 August 2009, Glasgow, Scotland/ **Lecture and Poster**

## 2008

[70] **Side Chains Effects on the Electroluminescent and Photovoltaic Properties of PPE-PPV Hybrid Polymers**

Egbe, D. A. M.; Wild, A.; Türk, S.; Pivrikas, A.; Günes, S.; Blaudeck, T.; Sariciftci, N. S.; Baumann, R.; The 7th International Conference on Electroluminescence of Molecular Materials and Related Phenomena, Dresden, 02-06. Sept. 2008/**Lecture**

[69] **Side Chain Effects on the Photophysical, Electrochemical, Electroluminescent and Photovoltaic Properties of PPE-PPV Systems**

Egbe, D. A. M. Department of Physics, Yildiz Technical University Istanbul, Turkey, 4.8.2008. /**Invited Lecture**

[68] **Combined Effects of Alkoxy Side Chains and Film Thickness on the Properties of Inkjet Printed Libraries of PPE-PPV Copolymers.**

Egbe, D. A. M.; Tekin, E.; Blaudeck, T.; Schubert, U. S.; Baumann, R.; 1st International Symposium on Flexible Organic Electronics“, 8-11 July 2008, Halkidiki, Greece./**Lecture**

[67] **Polymers for Photovoltaic Applications: What can we learn from PPE-PPV Systems ?**

Egbe, D. A. M., Baumann, R., Proceedings of the 3<sup>rd</sup> International Symposium on Technologies for Polymer Electronics TPE 08, 20-22 May 2008, Rudolstadt, Germany./**Lecture**

[66] **Four-fold Alkoxy-Substituted PPE-PPVs: Synthesis and Combined Effects of Side Chains and Film Thickness on the Emission Colors of Inkjet Printed Libraries.**

Egbe, D. A. M.; Tekin, E.; Blaudeck, T.; Schubert, U. S.; Baumann, R., Proceedings of the 1<sup>st</sup> International Conference on R2R Printed Electronics 2008, Apr. 30 – May 2, 2008, Konkun University Seoul, Korea/ **Lecture**



[65] **Four-fold Alkoxy-Substituted PPE-PPVs: Structure-Property Relationships and Story behind the Scene**

Egbe, D. A. M. Institute of Physics, TU-Chemnitz, Seminar of the group of Prof. Dr. R. Magerle, 24.4.2008, Chemnitz./ **Invited Lecture**

[64] **Poly(arylene-ethynylene)-*alt*-poly(arylene-vinylene)s for organic photovoltaic applications.**

D. A. M. Egbe, International Symposium Towards Organic Photovoltaics, February 6<sup>th</sup>-8<sup>th</sup>, 2008, Johannes Kepler University Linz, Austria/ **Poster**

[63] **PPE-PPV Systems: Structure-Property Relationships**

Egbe, D. A. M.; Institute of Physics, TU-Chemnitz, Seminar of the group of Prof. Dr. C von Borczyskowski, 8.1.2008, Chemnitz./ **Invited Lecture**

[62] **Metallo-Supramolecular ABA Triblocks for Designing New Materials**

M. Chiper, A. Winter, D. A. M. Egbe, R. Hoogenboom, D. Wouters, S. Hoepfener, C.-A. Fustin, J. -F. Gohy, U. S. Schubert, Dutch Polymer Days, 4<sup>th</sup>-5<sup>th</sup> February 2008 Lunteren, the Netherlands/ **Lecture**

## 2007

[61] **Anthracene- and thiophene-containing poly(-*p*-arylene-ethynylene)/poly(-*p*-arylene-vinylene)s: Photophysical and Photovoltaic Properties**

D. A. M. Egbe, A. Wild, S. Günes, A. Pivrikas, U. S. Schubert, R. Baumann, N. S. Sariciftci, Advanced Polymers Via Macromolecular Engineering (APME) 2007 conference, December 14- 19, 2007, Miami Beach, USA. / **Lecture**

[60] **Rigid  $\pi$ -conjugated 2,2':6',2''-terpyridines as building blocks for new supramolecular assemblies**

A. Winter, M. Chiper, E. Tekin, D. A. M. Egbe, U. S. Schubert, American Chemical Society, 234<sup>th</sup> National Meeting, August 19-23, 2007, Boston, MA, U. S. A./ **Lecture**

[59] **New metallo-supramolecular architectures based on polymers functionalized and rigid  $\pi$ -conjugated terpyridine**

M. Chiper, A. Winter, D. A. M. Egbe, U. S. Schubert, American Chemical Society, 234<sup>th</sup> National Meeting, August 19-23, 2007, Boston, MA, U. S. A./ **Poster**

[58] **Four-Fold Alkoxy-Substituted PPE-PPVs: Structure-Property Relationships**

D. A. M. Egbe, Istanbul Technical University, Turkey, August 7<sup>th</sup> 2007./ **Invited lecture**

[57] **Supramolecular Architectures Based on Rigid  $\pi$ -Conjugated Ruthenium(II) Terpyridines Systems**

M. Chiper, A. Winter, D. A. M. Egbe, U. S. Schubert, Annual Meeting of the Belgian Polymer Group, BPG 07, Ol Fosse d'Outh, Houffalize, Belgium May 24-25, 2007/ **Poster**

[56] **Anthracene-and Thiophene-Containing Poly(*p*-phenylene-ethynylene)/Poly(*p*-phenylene-vinylene)s: Towards Optimized Structures for Photovoltaic Applications**

D. A. M. Egbe, A. Wild, U. S. Schubert, Prague Meetings on Macromolecules, 47<sup>th</sup> Microsymposium, Advanced Polymer Materials for Photonics and Electronics, Prague 15-19 July 2007./ **Special Lecture**

[55] **Four-Fold Alkoxy-Substituted PPE-PPVs: Structure-Property Relationships**

D. A. M. Egbe, Zernike Institute of Advanced Materials, University of Groningen, The Netherlands, March 13<sup>th</sup> 2007/ **Invited lecture**

[54] **Synthesis and Properties of Selected PPE-PPV Systems**

D. A. M. Egbe, Institute of Print and Media Technology of the University of Chemnitz, Germany, February 12<sup>th</sup> 2007/ **Invited lecture**

[53] **Synergic effects of alkoxy side chains and film thickness on luminescent colors of PPE-PPV systems**

E. Tekin, D. A. M. Egbe, Ulrich S. Schubert, Dutch Polymer Days, Lunteren, February 5-6./Poster

[52] **Combined Effects of Alkoxy-Side Groups and Triple bond/ Double Bond Ratio on the Photophysical and Photovoltaic Properties of Thiophene-Containing PPE-PPVs**

D. A. M. Egbe, A. Wild, K. Schmidtke, L. H. Nguyen, S. Guenes, C. Sieber, N. S. Sariciftci, U. S. Schubert, Dutch Polymer Days, Lunteren, February 5.-6./Poster.

## 2006

[51] **Arylene-Ethynylene/Arylene-Vinylene Copolymers: Structure-Properties Relationships**

U.-W. Grummt, D. A. M. Egbe, E. Bireckner, International Conference on Polymers and Advanced Materials, Polymex 2006, Huatulco Mexico, November 5-9./**Invited Lecture**

[50] **Inkjet Printing of Luminescent Polymer Thin Films**

E. Tekin, E. Holder, H. Wijlaars, D. A. M. Egbe, U. S. Schubert, Plastic Electronics 23-24 October 2006 Frankfurt, Germany and DPI Annual Meeting, 13-14 November, Terneuzen, the Netherlands/ **Poster**

[49] **Thiophene-Containing Poly(-*p*-arylene-ethynylene)-alt-poly(-*p*-arylene-vinylene)s: Concerted Effects of Alkoxy Side Chains and Conjugation Pattern**

D. A. M. Egbe, K. Schmidtke, A. Wild, L.-H. Nguyen, C. Sieber, U. S. Schubert, N. S. Sariciftci. Thüringer Werkstofftag 2006, Polymere in Thüringen, October 5, 2006, FSU-Jena Germany/ **Poster**

[48] **Odd-Even Effects and the Influence of Length and Specific Positioning of Side Chains on the Properties of PPE-PPV Polymers**

D. A. M. Egbe, C. Ulbricht, E. Bireckner, U.-W. Grummt, 1<sup>st</sup> European Chemistry Congress, 27-31 August 2006 Budapest, Hungary and International Conference on Polymers and Advanced Materials, Polymex 2006, Huatulco Mexico, November 5.-9./**Poster**

[47] **Inkjet printing of luminescent polymers based on PPV's for combinatorial studies**

E. Tekin, E. Holder, H. Wijlaars, D. A. M. Egbe, U. S. Schubert, 5th DPI workshop: 'Combinatorial and high-throughput approaches in polymer science' Eindhoven, the Netherlands, June 26-27, 2006./**Poster**

[46] **Inkjet printing luminescent polymers based on PPV's for LED applications.**

E. Tekin, E. Holder, H. Wijlaars, D. A. M. Egbe, U. S. Schubert, The International Conference on Organic Electronics 20 – 22 June 2006, Philips High Tech Campus, Eindhoven./**Lecture**

[45] **Ink-jetting functional polymers**

E. Holder, E. Tekin, D. Kozodaev, D. A. M. Egbe, U. S. Schubert, F $\pi$ 7 (The seventh International Symposium on Functional  $\pi$ -Electron Systems), May 15-20, 2006 Osaka, Japan./**Lecture**

[44] **Inkjet printing thin films of PPV's and their characterizations**

E. Tekin, E. Holder, D. Kozodaev, D. A. M. Egbe, U. S. Schubert, Dutch Polymer Days, February 6-7, 2006, Lunteren, the Netherlands./ Poster

[43] **Anthracene- and thiophene-containing arylene-ethynylene-alt-arylene-vinylene copolymers: synthesis, characterization and photovoltaic properties**

D. A. M. Egbe, K. Schmidtke, H. Hoppe, L. H. Nguyen, N. S. Sariciftci, European Conference on Hybrid and Organic Solar Cells, ECHOS'06, June 28-30, 2006-Paris, France, Book of Abstract N° 28-P1-5./**Poster**

[42] **Effects of side chains on the electrochemical and photovoltaic properties of yne-containing PPV's.**

D. A. M. Egbe, K. Schmidtke, L. H. Nguyen, D. Mühlbacher, N. S. Sariciftci, International Symposium on Technologies for Polymer Electronics TPE 06, 16 – 18 May 2006, Rudolstadt, Germany/ **Lecture**



[41] **Thiophene-containing arylene-ethynylene/arylene-vinylene polymers: Synthesis, characterisation and photovoltaic properties.**

K. Schmidtke, B. Carbonnier, L. H. Nguyen, H. Hoppe, D. Mühlbacher, N. S. Sariciftci, D. A. M. Egbe, Makromolekulares Kolloquium Freiburg, 23.-25. Februar 2006/**Poster**

#### 2005

[40] **Effects of Alkoxy Side Chains on the Electrochemical and Photovoltaic Properties of Poly(arylene-ethynylene)-alt-poly(arylene-vinylene)s Polymers**

D. A. M. Egbe, L. H. Nguyen, D. Mühlbacher, N. S. Sariciftci. Advanced Polymers Via Macromolecular Engineering (APME) 2005 conference, August 14- 19, 2005, Istanbul, Turkey /**Lecture**

[39] **Thiophene-Containing Arylene-Ethynylene/Arylene-Vinylene polymers: Synthesis, Characterisation and Photovoltaic Properties**

K. Schmidtke, B. Carbonnier, L. H. Nguyen, N. S. Sariciftci, D. A. M. Egbe. Advanced Polymers Via Macromolecular Engineering (APME) 2005 conference, August 14- 19, 2005, Istanbul, Turkey / **Poster**.

[38] **Influence of alkoxy side chain on the electrochemical and photovoltaic properties of poly(arylene-ethynylene)-alt-poly(arylene-vinylene)s**

D. A. M. Egbe, Research group of Prof. N. S. Sariciftci, Linz Institute of Organic Solar Cells (LIOS), Linz, Austria, 29.07. 2005/**Lecture**

[37] **Side Chain Effects on the photophysical, electrochemical and photovoltaic properties of hybrid arylene-ethynylene-alt-arylene-vinylene polymers**

D. A. M. Egbe, Special seminar, Institute of Physics, TU-Ilmenau, 19.7.2005./**Invited Lecture**

[36] **Photophysical, Electrochemical and Photovoltaic Properties of Thiophene-Containing Arylene-Ethynylene/Arylene-Vinylene Polymers**

Egbe, D. A. M.; Schmidtke, K.; Nguyen, L. H.; Hoppe, H.; Mühlbacher, D.; Sariciftci, N. S., Symposium F (thin film and nano-structured materials for photovoltaics) of the E-MRS 2005 Spring Meeting, May 31-June 3, 2005, Strasbourg, France /**Poster**

[35] **Large Area Flexible Polymer Solar Cells**

Sensfuss, S.; Al-Ibrahim, M.; Schache, H.; Konkin, A.; Zhokavets, U.; Gobsch, G.; Egbe, D. A. M.; Apsel, F.; Miethel, U.; Herzau-Gerhardt, U. Symposium F (thin film and nano-structured materials for photovoltaics) of the E-MRS 2005 Spring Meeting, May 31-June 3, 2005, Strasbourg, France/**Poster**

[34] **Diffraktometrische Charakterisierung von defektfreien Alkoxy-Substituierten Poly(-p-phenylene-ethynylene)-alt-poly(-p-phenylene-vinylene)n**

Müller, D.; Egbe, D. A. M., 19. Vortragstagung mit Sonderforum der GDCh-Fachgruppe Photochemie (Neuere spektroskopische Entwicklungen in der Photochemie), 29.-31. März 2005, Jena, Germany., Kurzreferatheft: Seite 98. /**Poster**

[33] **Combined Odd/Even Effects and Length Variation of Alkoxy Side Chains on the Photophysical Properties of PPE/PPV Polymers**

Egbe, D. A. M.; Ulbricht, C.; Nowotny, J.; Peip, M.; Birckner, E.; Metzner, M.; Gericke, M.; Grummt, U.-W.; Kietzke, T.; Neher, D. 19. Vortragstagung mit Sonderforum der GDCh-Fachgruppe Photochemie (Neuere spektroskopische Entwicklungen in der Photochemie), 29.-31. März 2005, Jena, Germany, Kurzreferatheft: Seite 89/**Poster**

[32] **Comparison of the Photophysical Properties of Mixed Alkyl- and Alkoxy-Substituted with solely Alkoxy-Substituted PPV/PPE Hybrid Polymers**

Egbe, D. A. M.; Sell, S.; Bader, C.; Birckner, E.; Grummt, U.-W., 19. Vortragstagung mit Sonderforum der GDCh-Fachgruppe Photochemie (Neuere spektroskopische Entwicklungen in der Photochemie), 29.-31. März 2005, Jena, Germany., Kurzreferatheft: Seite 88 /**Poster**

[31] **CN-Containing Phenylene-Ethynylene/Phenylene-Vinylene Hybrid Polymers: Synthesis, Characterization and Photophysical, Electrochemical, Electroluminescent and Photovoltaic Properties**

D. A. M. Egbe, T. Kietzke, D. Mühlbacher, H.-H. Hörhold, D. Neher., Makromolekulares Kolloquium Freiburg 24.-26. Februar 2005./**Lecture**

#### 2004

[30] **Poly(Phenylene-ethynylene)-alt-Poly(phenylene-vinylene) Hybrid Polymers: The Story Behind the Scene**

D. A. M. Egbe, Research group of Prof. N. S. Sariciftci, Linz Institute of Organic Solar Cells (LIOS), Linz, Austria, 22<sup>nd</sup> Dec. 2004/**Lecture**

[29] **Defect-free Yne-Containing Poly(phenylene-vinylene)s: Synthesis, Characterisation, and Photophysical, Electrochemical and Electroluminescent Properties.**

D. A. M. Egbe, E. Birckner, U.-W. Grummt, L. Ding, F. E. Karasz, D. Mühlbacher, Polydays 2004, 4-6.10.2004, Potsdam, Abstract booklet: page 8. /**Lecture**

[28] **LESR and <sup>1</sup>H NMR Registration of Photogenerated Radicals in PPV Donor Type Polymer in Solution**

Konkin. A.; Aganov. A.; Schroedner, M.; Natzmutdinova, G.; Egbe, D. A. M., Sensfuss, S.; Roth, H.-K. International Symposium Technologies for Polymer Electronics TPE 04, 28- 30.09. 2004, Rudolstadt-Germany/**Poster**

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