

## II. PUBLICATIONS / Veröffentlichungen

1. Field Effect Mobility Measurements of Conjugated Polymer/Fullerene Blends  
W. Geens, S. E. Shaheen, C. J. Brabec, J. Poortmans, N. S. Sariciftci  
Electronic Properties of Novel Materials ó Molecular Nanostructures, edited by H. Kuzmany, Jörg Fink, Michael Mehring and Siegmur Roth, American Institute of Physics, Volume 544, p. 516-520, New York 2000
2. Conjugated Polymer Based Plastic Solar Cells  
C.J. Brabec, N.S. Sariciftci  
Invited Book Chapter 15 "Semiconducting Polymers" edited by G. Hadziannou and P. F. van Hutten, (2000), p 515-560
3. [Comparison of photovoltaic devices containing various blends of polymer and fullerene derivatives](#)  
T. Fromherz, F. Padinger, D. Gebeyehu, C. Brabec, J.C. Hummelen, and N.S. Sariciftci  
Solar Energy Materials & Solar Cells (SEMESC) 2000, 61-68
4. [Photoinduced FT-IR Spectroscopy and CW-Photocurrent Measurements of Conjugated Polymers and Fullerenes Blended into a Conventional Polymer Matrix](#)  
C.J. Brabec, H. Johansson, F. Padinger, H. Neugebauer, J.C. Hummelen, and N.S. Sariciftci  
Solar Energy Materials & Solar Cells (SEMESC) 61 (2000) 19-33
5. [Stability and Photodegradation Mechanisms of Conjugated Polymer / Fullerene Plastic Solar Cells](#)  
H. Neugebauer, C. Brabec, J.C. Hummelen, N.S. Sariciftci  
Solar Energy Materials & Solar Cells (SEMESC) 61 (2000) 35-42
6. [Vibrational signatures of electrochemical p- and n-doping of poly\(3,4-ethylenedioxythiophene\) films: an in situ attenuated total reflection Fourier transform infrared \(ATR-FTIR\) study](#)  
C. Kvarnström, H. Neugebauer, A. Ivaska and N.S. Sariciftci  
J. of Molecular Structure 521 (2000) 271-277, (special issue for 60th birthday of G. Zerbi)
7. Electronic Properties of Fullerene/p -Conjugated Polymer Composites  
N. Serdar Sariciftci  
Chapter 11 of the "*Optical & Electronic Properties of Fullerenes and Fullerene-based Materials*", edited by Z.V. Vardeny, Z. H. Kafafi and J. Shinar, Marcel Dekker Inc., (2000) 333-365, ISBN 0-8247-8257-7
8. Supramolecular Photophysics and Photovoltaic Devices of Fullerene/Conjugated Polymer Composites  
N. S. Sariciftci  
Chapter 3 of the "*Fullerene Polymers and Fullerene-Polymer Composites*" edited by P. C. Eklund and A. M. Rao, Springer-Verlag, pp 101 - 143 (2000)

9. [Highly Anisotropically Self-Assembled Structures of para-Sexiphenyl Grown by Hot Wall Epitaxy](#)  
A. Andreev, G. Matt, C.J. Brabec, H. Sitter, Dirk Badt, H. Seyringer and N.S. Sariciftci  
Adv. Mat. 12, 629-633 (2000)
10. [Multiple Electrochemical Doping Induced Insulator-to-Conductor Transitions Observed in Conjugated Ladder Polymer Polybenzimidazobenzophenanthroline \(BBL\)](#)  
Teketel Yohannes, H. Neugebauer, S. Luzzati, M. Catellani, S.A. Jenekhe and N.S. Sariciftci  
J. Phys. Chem. B (2000), 104, 9430-9437
11. [Fabrication of large area photovoltaic devices containing various blends of polymer and fullerene derivatives by using the doctor blade technique](#)  
F. Padinger, C.J. Brabec, T. Fromherz, J.C. Hummelen and N.S. Sariciftci  
Optoelec. Review, 8(4), 280-283 (2000)
12. [Investigation of Photoinduced Charge Transfer in Composites of a Novel Precursor PPV Polymer and Fullerenes](#)  
C.J. Brabec, A. Cravino, G. Zerza, F. Padinger, N.S. Sariciftci, R. Kiebooms, D. Vanderzande, J.C. Hummelen  
Mat. Res. Symp. Proc. Vol. 598, BB 3.25.1-6 (2000)
13. [The Interconnection between Efficiency and Morphology of two component Systems in Plastic Solar Cells](#)  
F. Padinger, D. Gebeyehu, C.J. Brabec, T. Fromherz, N.S. Sariciftci, J.C. Hummelen  
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14. [The Influence of Ordering on the Photoinduced Charge Transfer in Composites of Phenyl-type Substituted Polythiophenes with Methanofullerenes](#)  
C.J. Brabec, C. Winder, M. Scharber, N.S. Sariciftci, M.A. Andersson, O. Inganäs, J.C. Hummelen  
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15. [Highly Ordered Crystalline Thin Film Bilayers of para-Hexaphenyl and C60 Grown by Hot Wall Epitaxy](#)  
H. Sitter, G. Matt, A. Yu. Andreev, C.J. Brabec, D. Badt, H. Neugebauer, N.S. Sariciftci  
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16. [Electrochemically- and Photo-Induced IR Absorption of Low Band-Gap Polydithienothiophenes: a Comparative Study](#)  
A. Cravino, H. Neugebauer, N.S. Sariciftci, M. Catellani, S. Luzzati  
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17. [Infrared Photospectroelectrochemistry of Germanium/Pedot/Electrolyte Interfaces](#)  
H. Neugebauer, Y. Teketel, N.S. Sariciftci  
Mat. Res. Soc. Symp. Proc., Vol. 598, BB3.73.1-6 (2000)
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M.C. Scharber, C.J. Brabec, F. Padinger, N.S. Sariciftci

19. Photovoltaic Properties of Conjugated Polymer/Fullerene Composites on Large Area Flexible substrates  
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20. [Photoinduced charge transfer between tetracyano-anthraquino-dimethane derivatives and conjugated polymers for Photovoltaics](#)  
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21. [Photoinduced charge transfer between tetracyano-anthraquino-dimethane derivatives and conjugated polymers](#)  
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22. [Reflectance anisotropy spectroscopy of oriented films of semiconducting polymers](#)  
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Journal of Chemical Physics 113 (2000) 789-792
23. Polymeric Photovoltaic Devices  
Christoph J. Brabec and N. Serdar Sariciftci  
Materials Today, Review pp 3-6 (2000)
24. [Synthesis, Photophysical Properties, and Photovoltaic Devices of Oligo\(p-Phenylene Vinylene\)-Fullerene Dyads](#)  
E. Peeters, P.A. van Hal, J. Knol, J.C. Brabec, N.S. Sariciftci  
J.C. Hummelen and R.A.J. Janssen, J. Phys. Chem. B. Vol 104, (2000), pp 10174 -10190
25. [A novel polythiophene with pendant fullerenes: toward donor/acceptor double-cable polymers](#)  
A. Cravino, G. Zerza, M. Maggini, S. Bucella, M. Svensson, M.R. Andersson, H. Neugebauer, and N.S. Sariciftci  
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26. [Oligomer-fullerene dyads: photophysics and performance as active layer material in photovoltaic cells](#)  
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27. Amorphous Microporous Titania Modified with Metal Chlorides as Photocatalysts for Detoxification and Charge Generation by Visible Light  
L. Zang, W. Macyk, C. Lange, W. F. Maier, C.a Antonius, D. Meissner, H. Kisch  
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28. [STM Investigations of Tricyclochinazoline Liquid Crystals on Gold](#)  
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Thin Solid Films 358 (2000) 241-249
29. [The Effect of Fullerene Doping on Photoelectric Conversion Using Titanyl Phthalocyanine and a Perlene Pigment](#)  
T. Tsuzuki, Y. Shirota, J. Rostalski, D. Meissner  
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30. [Metal Cluster Enhanced Organic Solar Cells](#)  
M. Westphalen, U. Kreibig, J. Rostalski, H. Lüth, D. Meissner  
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31. [Monochromatic versus Solar Efficiencies of Organic Solar Cells](#)  
J. Rostalski, D. Meissner  
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32. [STM Investigations of the Growth Structure of Cu-Phthalocyanine Films with Sub-Molecular Resolution](#)  
R. Hiesgen, M. Rabisch, H. Böttcher, D. Meissner  
Solar Energy Mater. Solar Cells 61 (2000) 73 - 85
33. [STM Measurement of Current-Potential Curves at a Semiconductor Surface](#)  
R. Hiesgen, M. Krause, D. Meissner  
Electrochim. Acta 45 (2000) 2313
34. [Editorial: ECOS 98 II](#)  
D. Meissner  
Solar Energy Mater. Solar Cells 63 (2000), 1 - 2
35. Electroabsorption Studies of Phthalocyanine/Perylene Solar Cells  
P. A. Lane, J. Rostalski, C. Giebeler, S. J. Martin, D. D. C. Bradley, D. Meissner  
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36. [Photocurrent Spectroscopy: A New Method for the Investigation of Charge Carrier Generation and Transport Mechanisms in Organic p/n Junction Solar Cells](#)  
J. Rostalski, D. Meissner  
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37. Photoexcited Magnetic Resonance Studies on Fullerenes and Fullerene Conjugated Polymer Composites  
  
M. Scharber  
Fullerenes Vol. 8: Electrochemistry and Photochemistry, S. Fukuzumi, F. DiSouza, and D. M. Guldi, Editors, 336 pgs., ISBN 1-56677-275-3
38. [In Situ Attenuated Total Reflection FTIR Spectroelectrochemistry of Polybenzimidazobenzophenanthroline \(BBL\)](#)  
Teketel Yohannes, H. Neugebauer, Niyazi S. Sariciftci, S. Yi and Samson A. Jenekhe  
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1. Photoinduced Charge Carriers in a Donor-acceptor Double-cable Polythiophene with Covalently Bound Tetracyanoanthraquinodimethane Moieties  
G. Zerza, A. Cravino, R. Gómez, J. L. Segura, M. Svensson, M. R. Andersson, N. Martín, H. Neugebauer, N. S. Sariciftci  
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2. The Interplay of Efficiency and Morphology in Photovoltaic Devices Based on Interpenetrating Networks of Conjugated Polymers with Fullerenes  
D. Gebeyehu, C.J.Brabec, F. Padinger, T. Fromherz, J.C. Hummelen, D. Badt, H. Schindler, and N.S. Sariciftci  
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5. Polarized Doping-induced Infrared Absorption in Highly Oriented Conjugated Polymers  
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8. Photoactive Blends of Poly(para-phenylenevinylene) (PPV) with Methanofullerenes from a Novel Precursor: Photophysics and Device Performance  
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9. 2.5 % Efficient Organic Solar Cells  
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11. Studies of Organic Solar Cells by Capacitance Methods  
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S. E. Shaheen, D. Vangeneugden, R. Kiebooms, D. Vanderzande, T. Fromherz, F. Padinger, C. J. Brabec, N. S. Sariciftci  
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15. Organic Photovoltaic Devices produced from Conjugated Polymer / Methanofullerene Bulk Heterojunctions  
C. J. Brabec, S. E. Shaheen, T. Fromherz, F. Padinger, J. C. Hummelen, A. Dhanabalan, R. A. J. Janssen, N. S. Sariciftci  
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18. Recent Developments in Conjugated Polymer Based Plastic Solar Cells  
C. J. Brabec, N. S. Sariciftci  
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19. Photoinduced Charge Transfer in Blends of a novel PPV with Methanofullerenes  
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20. Infrared spectroelectrochemistry on conducting polymers and fullerenes  
Carita Kvarnström, Helmut Neugebauer and Ari Ivaska  
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21. Poly(2-hexyl-9,10-anthrylene vinylene) - A New Class of Soluble Poly(anthrylene vinylene)s  
R. Müllner, A. Cravino, J. Williams, F. Stelzer, G. Jakopic, G. Leising  
Synth. Metals
22. Electropolymerization and Spectroscopic Properties of a Novel Double-Cable Polythiophene with Pendant Fullerenes for Photovoltaic Applications  
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23. Semiconductor/conjugated polymer/electrolyte interfaces studied with infrared photospectroelectrochemistry  
H. Neugebauer, Teketel Yohannes, N.S. Sariciftci  
Synth. Metals
24. In situ UV-VIS-NIR and Raman spectroelectrochemical studies of the Conjugated Ladder Polymer Polybenzimidazobenzophenanthroline (BBL)  
Teketel Yohannes, H. Neugebauer, S. Luzzati, M. Catellani, S. Yi, S.A. Jenekhe, N.S. Sariciftci  
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25. Solid State dye-sensitized TiO<sub>2</sub> solar cells with poly(3-octylthiophene) as hole transport layer  
D. Gebeyehu, C.J. Brabec, F. Padinger, T. Fromherz, S. Spiekermann, N. Vlachopoulos, F. Kienberger, H. Schindler and N.S. Sariciftci  
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26. Degradation of Bulk Heterojunction Solar Cells Operated in an Inert Gas Atmosphere: A Systematic Study  
F. Padinger, T. Fromherz, P. Denk, C.J. Brabec, J. Zettner, T. Hierl and N.S. Sariciftci  
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27. Photoinduced electron transfer in solid C<sub>60</sub> donor/acceptor complexes  
D.V. Konarev, G. Zerza, M.C. Scharber, N.S. Sariciftci, R.N. Lyubovskaya  
Synth. Met.
28. Ultrafast Charge Transfer in Conjugated Polymer-Fullerene Composites  
G. Zerza, C.J. Brabec, G. Cerullo, S. De Silvestri, N.S. Sariciftci  
Synth. Met.
29. Para- sexiphenyl/C<sub>60</sub> Bi- and Multilayers grown by Hot Wall Epitaxy  
G. Matt, A. Andreev, H. Sitter, C.J. Brabec, H. Neugebauer, P. Hinterdorfer, N.S. Sariciftci  
Synth. Met.
30. Self-assembled growth of highly oriented para- sexiphenyl thin films  
A. Andreev, H. Sitter, C.J. Brabec, P. Hinterdorfer, G. Springholz, N.S. Sariciftci  
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31. Towards Controlled Donor-Acceptor Interactions in Non-composite Polymeric Materials: Synthesis and Characterization of a Novel Polythiophene Incorporating p-Conjugated 1,3-Dithiol-2-ylidene-fluorene Units as Strong D-A Components  
P. J. Skabara, I. M. Serebryakov, I. F. Perepichka, N. S. Sariciftci, H. Neugebauer and A. Cravino  
Publ. in 2001: *Macromolecules* 34 (2001) 2232
32. Photophysical Properties and Optoelectronic Device Applications of a Novel Naphthalene-vinylene Type Conjugated Polymer  
G. Zerza, B. Röthler, N.S. Sariciftci, R. Gomez, J.L. Segura and N. Martin  
*J. Phys. Chem. B*
33. Photoinduced electron transfer in donor/acceptor double cable polymers: Polythiophene bearing tetracyano-anthraquino-dimethane moieties  
G. Zerza, A. Cravino, H. Neugebauer, N.S. Sariciftci, R. Gómez, J.L. Segura, N. Martin, M. Svensson and M.R. Andersson  
*J. Phys. Chem. A*
34. Interpenetrating Networks of Fullerenes and Conjugated Polymers for Plastic Photovoltaics  
C.J. Brabec, T. Fromherz, F. Padinger, N.S. Sariciftci, R.A. J. Janssen, J. C Hummelen  
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35. Photoelectrochemical Solar Cells Based on Conjugated Polymers on Dye-Sensitized TiO<sub>2</sub> Electrodes  
D. Gebeyehu, C. Brabec, F. Padinger, T. Fromherz, S. Spiekermann, N. Vlachopoulos, and N. S. Sariciftci  
Proceedings of EPA Graduate Student Symposium in Photochemistry, Feb. 23-26, 2000, University of Fribourg, Switzerland.
36. Highly Efficient Molecular Organic Solar Cells  
J. Rostalski, D. Meissner  
Proceedings, 16th European PV Solar Energy Conference, Glasgow, UK
37. Optical studies of electric fields in organic solar cells  
P. A. Lane, J. Rostalski, C. Giebeler, S. J. Martin, D. Meissner and D. D. C. Bradley  
*Organic Electronics*
38. Tip Effects in the Scanning Tunneling Microscopy of Semiconductor Electrodes  
R. Hiesgen, D. Meissner, W. Schmickler  
*Surface Science*
39. Temperature and Irradiance effects on the photovoltaic parameters of a fullerene/conjugated polymer solar cell  
E. A. Katz, D. Faiman, Y. Cohen, F. Padinger, C. Brabec and N.S. Sariciftci  
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40. Sensitization of Photoconductive Polyimides for Photovoltaic Applications  
D. Mühlbacher, C. J. Brabec, N. S. Sariciftci, B. V. Kotov, V. I. Berendyaev, B. M. Rummyantsev, J. C. Hummelen



**submitted to:**

1. Synthesis and Characterization of a Poly(1,3-dithienylisothianaphthene) Derivative for Bulk Heterojunction Photovoltaic Cells  
D. L. Vangeneugden, D. J. M. Vanderzande, J. Salbeck, P. A. van Hal, R. A. J. Janssen, J. C. Hummelen, C. J. Brabec, S. E. Shaheen and N. S. Sariciftci  
submitted to J. Phys. Chem B
2. A Soluble Low-Bandgap Polymer for Near-IR Optoelectronic Devices  
Christoph J. Brabec, Christoph Winder, N. Serdar Sariciftci, Jan C. Hummelen, Anantharaman Dhanabalan, Paul A. van Hal, René A.J. Janssen  
submitted to Appl. Phys. Lett.
3. Influence of Disorder on the Photoinduced Excitations in Phenyl Substituted Polythiophenes  
C. J. Brabec, C. Winder, M.C. Scharber, N. S. Sariciftci, J. C. Hummelen, M. Andersson  
submitted to J. Chem. Phys.
4. Hybrid Solar Cells Based on Dye-Sensitized Nanoporous TiO<sub>2</sub> Electrodes and Conjugated Polymers as Hole Transport Materials  
D. Gebeyehu, C. J. Brabec, D. Vangeneugden, R. Kiebooms, D. Vanderzande, F. Kienberger, H. Schindler, N. S. Sariciftci  
submitted to Synth. Met.
5. On the Origin of the Open Circuit Voltage in Plastic Solar Cells  
C. J. Brabec, A. Cravino, N. S. Sariciftci, M. Minse, J. C. Hummelen  
submitted to Adv. Func. Mater.
6. Tracing photoinduced electron transfer process from a polymer chain to a fullerene moiety in real time  
C.J.Brabec, G. Zerza, N.S.Sariciftci, G.Cerullo, S.DeSilvestri, S.Luzatti, J.C.Hummelen  
submitted to Chem. Phys. Lett.
7. An in situ infrared spectroelectrochemical study on the doping of poly(3,4-ethylenedioxythiophene), PEDOT and polyisothionaphthene, PIM  
C. Kvarnström, H. Neugebauer, C. Brabec, R. Kiebooms, F. Wudl, A. Ivaska and N.S. Sariciftci  
New Materials for Electrochemical Systems
8. Quenching of photoexcited coherent vibrational oscillations by an ultrafast electron transfer  
Christoph J. Brabec, Gerald Zerza, N. Serdar Sariciftci, Giulio Cerullo, Sandro De Silvestri, Silvia Luzzati, Jan C. Hummelen  
Chem. Phys. Lett.
9. An In Situ Spectroelectrochemical Study on the Reduction of Thin Fullerene Films  
C.Kvarnström, H.Neugebauer, H.Kuzmany, H.Sitter, N.S. Sariciftci  
submitted to J. Electroanal. Chem.

10. Electrochemistry and polymerisation of 3',4'-Bis(alkylsulfanyl)terthiophenes and the significance of the fused dithiin ring in 2,5-bithienyl-3,4-ethylenedithiophene (BT-EDTT)  
Peter J. Skabara, Cristina Pozo-Gonzalo, Tahir Khan, Donna M. Roberts, Mark E. Light, Michael B. Hursthouse, N. Serdar Sariciftci, Helmut Neugebauer and Antonio Cravino submitted to J. Material Chemistry
11. Morphology Dependent Photoexcitation Mechanism in Substituted Polythiophenes Studied by Magnetic Resonance  
M. C. Scharber, N. Schultz, Christoph J. Brabec, Mats Andersson and N. Serdar Sariciftci submitted to Phys. Rev. B
12. A soluble donor/acceptor *double-cable* polythiophene with pendant fullerenes for photovoltaic devices  
Gerald Zerza, Antonio Cravino, Michele Maggini, Stefania Bucella, Mattias Svensson, Mats R. Andersson, Christoph J. Brabec and N. Serdar Sariciftci submitted to Chem. Comm.

#### Patente:

1. Herstellung einer Brennstoffzelle mit Plasmabehandlung  
D. Meissner, J. Meusinger, R. Hiesgen  
Deutsche Patentanmeldung (Forschungszentrum Jülich) DE 198 15 209.4-45, erteilt 25. 1. 2000
2. Monokornmembranmaske  
D. Meissner, N. Zaitzev, E. Mellikov, M. Altosaar, T. Varema  
Deutsche Patentanmeldung (Forschungszentrum Jülich) DE 199 09 187.0, erteilt: 27. 10. 2000
3. Photovoltaische Zelle I  
Sariciftci et al  
Österreichische Patenanmeldung 15 A 733 /2000, pending
4. Photovoltaische Zelle II  
Sariciftci et al  
Österreichische Patenanmeldung 15 A 734 /2000, pending
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