

bibliographic data of publications in second year report
(March/April 2002)

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corrected parts of report 2002, with:

- improved author list (article in Liquid Crystals)
- improved page numbering (concerning first paper by Salvan et al.)
- final page of article where missing (Evans et al., Widany et al.)
- date of corresponding issue
- possible link on web

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Raman Spectroscopy: A Powerful Tool for Characterisation of
Ag/3,4,9,10- Perylene-Tetracarboxylic-Dianhydride/GaAs
heterostructures

G. Salvan (YR), D. A. Tenne, T. U. Kampen, R. Scholz, G. Jungnickel,
Th. Frauenheim, and D. R. T. Zahn, Appl. Surf. Sci. 179, 113-7 (2001),
TUC, UGHP

16 July 2001

<http://www.elsevier.com/gej-ng/29/30/show/Products/SID/index.htm?PAGE=search>
(link geht zu Surfaces and Interfaces Search Index, weitere Moeglichkeiten s.u.)

In Situ Monitoring of the Growth of Copper Phthalocyanine Films on
InSb by Organic Molecular Beam Deposition

D.A. Evans, H.J. Steiner (YR), R. Middleton, T.S. Jones, H. Chen,
K. Horn, S. Park, T.U. Kampen, D.R.T. Zahn, A. Patchett, and
I.T. McGovern, Appl. Surf. Sci., 175-176, 374-8 (2001), TUC, TCD, UWA

15 May 2001

<http://www.elsevier.com/gej-ng/29/30/show/Products/SID/index.htm?PAGE=search>

Absorption and luminescence spectra of electroluminescent liquid
crystals with triphenylene, pyrene and perylene units

S. Keuker-Baumann, H. Bock, F. Della Sala, S. A. Benning,
T. Hassheider, Th. Frauenheim, and H.-S. Kitzerow

Liq. Cryst. 28,1105-13 (2001), Rome, UGHP

7 July 2001

<http://rosina.catchword.com/vl=2504095/cl=34/nw=1/rpsv/cw/tandf/02678292/contpl.htm>

Electronic band structure and intermolecular interaction in
substituted thiophene polymorphs

J. Widany, G. Daminelli, A. Di Carlo, P. Lugli, G. Jungnickel, M. Elstner,
and Th. Frauenheim,

Phys. Rev. B. 63, 233204-7 (2001), Rome, UGHP

31 May 2001

<http://prb.aps.org/>

Coherent external and internal phonons in quasi-onedimensional organic
molecular crystals

T. Hasche, T. W. Canzler, R. Scholz, M. Hoffmann, K. Schmidt,
Th. Frauenheim, and K. Leo,

Phys. Rev. Lett. 86, 4060-3 (2001), TUC, UGHP

30 April 2001

<http://prl.aps.org/>

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background information concerning links found, and details of corrections
for article in Liquid Crystals:

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Applied Surface Science:

<http://www.elsevier.com/inca/publications/store/5/0/5/6/6/9/>

<http://www.elsevier.com/gej-ng/29/30/23/show/Products/SID/frame.htm>

Surfaces and Interfaces Search Index:

<http://www.elsevier.com/gej-ng/29/30/show/Products/SID/index.htm?PAGE=search>

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Liquid Crystals:

<http://rosina.catchword.com/vl=2504095/cl=34/nw=1/rpsv/cw/tandf/02678292/contpl.htm>

Liquid Crystals Volume 28 Number 7 July 2001

Title:

Absorption and luminescence spectra of electroluminescent liquid crystals with triphenylene, pyrene and perylene units

Author(s):

Susanne Keuker-Baumann; Harald Bock; Fabio Della Sala; Stephan A. Benning; Thomas Haßheider; Thomas Frauenheim; Heinz-S. Kitzerow

Source: Liquid Crystals

Volume: 28 Number: 7 Page: 1105 -- 1113

DOI: 10.1080/02678290110048732

Publisher: Taylor and Francis Ltd

Abstract:

New derivatives of triphenylene, perylene, and pyrene are described, some of which form columnar mesophases. The absorption spectra are investigated both experimentally and theoretically. The spectra calculated using the density functional tight binding (DFTB) theory are in good agreement with experimental results. The investigated compounds show photoluminescence of violet-blue (triphenylene), yellow-green (pyrene), and orange-red (perylen) colours. In addition, electroluminescence is observed in thin films of these compounds between a positively charged ITO electrode and a negatively charged aluminium electrode. The brightness of the electroluminescence decreases in the order perylene > pyrene > triphenylene. Threshold voltages below 20 V and a luminance up to 100 cd m⁻² were observed.

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Phys.Rev.B:

<http://prb.aps.org/>

Phys.Rev.Lett.:

<http://prl.aps.org/>