

MOLMAT 2008

Titles of the oral contributions

Invited plenary lectures

D. Astruc - Plenary lecture 1

DENDRITIC ELECTRON RESERVOIR COMPLEXES AS MOLECULAR BATTERIES

K. Tanaka - Plenary lecture 2

TERAHERTZ TIME-DOMAIN ATTENUATED TOTAL REFLECTION SPECTROSCOPY FOR MATERIALS SCIENCES

A. Hauser - Plenary lecture 3

SPIN CROSSOVER: FUNDAMENTALS AND PERSPECTIVES

M. Verdaguer - Plenary lecture 4

MOLECULAR MAGNETIC MATERIALS, SOME CORNERSTONES AND PROSPECTS

A. Fert - Plenary lecture 5

SPIN TRANSPORT BETWEEN SPIN-POLARIZED SOURCE AND DRAIN: ADVANTAGE OF CARBON NANOTUBES ON SEMICONDUCTORS

W. Knoll - Plenary lecture 6

NANOSTRUCTURED POLYMERIC MATERIALS BY TEMPLATING STRATEGIES

H. Wolf - Plenary lecture 7

TEMPLATED ASSEMBLY AND TRANSFER OF PARTICLE ARRAYS

S. Miyashita - Plenary lecture 8

REALIZATION OF THE MEAN-FIELD UNIVERSALITY CLASS IN SPIN-CROSSOVER MATERIAL, AND ITS NEW ASPECTS IN DYNAMICAL PROCESSES

B. Barbara - Plenary lecture 9

TUNNELLING AND COHERENCE OF MESOSCOPIC SPINS

J.-P. Bourgoin - Plenary lecture 10

TOWARDS BOTTOM-UP NANOELECTRONICS BASED ON CARBON NANOTUBES?

F. Neese - Plenary lecture 11

FIRST PRINCIPLES METHODS FOR THE CALCULATION OF SPINDEPENDENT PROPERTIES OF OPEN-SHELL TRANSITION METAL IONS

B. Georgeot - Plenary lecture 12

QUANTUM INFORMATION AND COMPUTATION, FROM DREAM TO REALITY

Oral Conferences

H. Yersin - C1

BASIC EMISSION PROPERTIES OF TRIPLET EMITTERS APPLIED IN OLEDs

C. Piguet - C2

REPLACING STRUCTURAL INTUITIONS WITH THERMODYNAMIC PROGRAMMING: A NOVEL CHEMICAL TOOL FOR DESIGNING FUNCTIONAL METAL-CONTAINING LIQUID CRYSTALS

W. K. Chan - C3

THE USE OF METAL CONTAINING POLYMERS AS THE ACTIVE MATERIALS IN POLYMERIC SOLAR CELLS

R. Barille - C4

COGNITIVE ABILITY PROCESS AT THE MOLECULAR LEVEL

C. Paul-Roth - C5

PORPHYRINS: VERY INTERESTING BUILDING BLOCK

S. A. Chen - C6

STRUCTURE TUNING OF CONJUGATED POLYMERS FOR HIGHLY EFFICIENT ELECTROLUMINESCENCE

P. Gerbier - C7

MOLECULAR ENGINEERING TO IMPROVE THE BALANCE OF CHARGE CARRIER IN SINGLE-LAYER SILOLE-BASED OLEDs

J. Galibert - C8

HIGH-FIELD MAGNETOTRANSPORT IN CARBON NANOTUBE MONOLAYERS AND THICK FILMS

J. Ignés-Mullol - C9

PHOTOSENSITIVE HETEROGENEOUS LANGMUIR MONOLAYERS

C. Mathonière - C10

PHOTOMAGNETISM IN MIXED-VALENCE COMPOUNDS: MOLECULES AND NANOPARTICLES

Y. Moritomo - C11

FEMTO-SECOND CHARGE DYNAMICS IN CYANO-BRIDGED TRANSITION METAL COMPOUNDS

R. Broer - C12

THE STATE OF TRANSITION METALS IN TRANSITION METAL COMPOUNDS

R. Clérac - C13

NEW MAGNETIC MATERIALS BASED ON “SINGLE-MOLECULE MAGNET”
BUILDING BLOCKS

E. Sheka - C14

CHEMICAL SUSCEPTIBILITY, NANOMAGNETISM, AND NANOPHOTONICS OF
FULLERENES

T. Ondarçuhu - C15

CARBON NANOTUBE BASED MAGNETIC FLUX DETECTOR FOR
NANOMAGNETISM: THE NANOSQUID

C. Iacovita - C16

TUNNELING INTO MOLECULAR SPIN STATES

F. Keilmann - C17

INFRARED NANOSCOPY FOR MAPPING CHEMICAL COMPOSITION AND
ELECTRICAL CONDUCTIVITY

M. Hietschold - C18

STUDYING THE INTERFACE ORGANIC-MOLECULE – GRAPHITE BY DISTANCE-
DEPENDENT SCANNING TUNNELING SPECTROSCOPY

G. Lemercier - C19

LINEAR AND NONLINEAR OPTICAL PROPERTIES OF Ru(II) COMPLEXES
INVOLVING 5-SUBSTITUTED-1,10-PHENANTHROLINE LIGANDS

D. Morse - C20

BIO-INSPIRED, LOW-TEMPERATURE, KINETICALLY CONTROLLED
NANOFABRICATION OF SEMICONDUCTOR AND FERROELECTRIC THIN FILMS
AND NANOPARTICLES

J. Larionova - C21

COORDINATION POLYMER NANOPARTICLES

V. Marvaud - C22

PHOTOMAGNETIC HIGH SPIN MOLECULES FOR MOLECULAR SPINTRONICS

M. Mannini - C23

XMCD FOR THE INVESTIGATION OF SINGLE MOLECULE MAGNETS BASED
SELF-ASSEMBLED MONOLAYERS

M. Timko - C24

MAGNETIC PROPERTIES OF BACTERIAL AND CHEMICALLY SYNTHESIZED
MAGNETITE NANOPARTICLES

A. Miyazaki - C25

SQUARIC-ACID SUBSTITUTED TTF DERIVATIVES: VERSATILE PRECURSORS FOR FUNCTIONAL MOLECULAR MATERIALS

J. Linares - C26

ATOM-PHONON COUPLING MODEL FOR 2D-SPIN CROSSOVER COMPOUNDS

A. B. Gaspar - C27

MULTIFUNCTIONALITY IN SPIN CROSSOVER MATERIALS

F. Herbstein - C28

CRYSTAL CHEMISTRY AND PHYSICS OF CLOSED SHELL TCNQ SALTS; COMPARISON OF DIFFRACTION AND SPECTROSCOPIC METHODS OF ASSIGNING CHARGE STATES TO TCNQ MOIETIES

P. V. Koningsbruggen - C29

GENERATION AND CONTROL OF PHOTOMAGNETIC BEHAVIOUR IN COORDINATION COMPOUNDS

M. A. Arrio - C30

LOCAL MAGNETIC MEASUREMENTS (XMCD) IN MULTILAYER PRUSSIAN BLUE ANALOGS NANOPARTICLES

V. Robert - C31

COVALENT AND WEAK BOND FORMATION IN THE GENERATION OF MAGNETIC MATERIALS: AN AB INITIO ANALYSIS

G. Filoti - C32

ELECTRONIC PROPERTIES (MAGNETISM AND INTERACTIONS) OF COORDINATION COMPOUNDS CONTAINING 3D TRANSITIONAL ELEMENT OXALATE UNITS CONNECTED VIA ALTERNATIVE BRIDGING

A. L. Tchougréeff - C33

CRYSTAL AND ELECTRONIC STRUCTURE OF THE ROOM TEMPERATURE ORGANOMETALLIC FERROMAGNET $V(\text{TCNE})_2$.

R. Faller - C34

MOLECULAR SIMULATIONS OF LOW MOLECULAR WEIGHT GLASSES IN CONFINED GEOMETRIES

H. Bolvin - C35

ABOUT THE SIGN OF THE ELECTRONIC G FACTORS

D. Chernyshov - C36

SPIN CROSSOVER UNDER MAGNIFYING GLASS: ORDER AND DISORDER IN SPIN AND SOLVENT SUBLATTICES IN EXPERIMENT AND THEORY

A. Koudriavtsev - C37

ISING-LIKE HAMILTONIAN AND MOLECULAR STATISTICAL MODEL
DESCRIPTIONS OF SPIN CROSSOVER

J. Kitchen - C38

TRIAZOLE BASED LIGANDS AND IRON(II): SOME MAGNETICALLY INTERESTING
MONO- AND DI-NUCLEAR COMPLEXES

L. Li - C39

DISPERSION OF CNTS FOR CONDUCTIVE POLYMER COMPOSITES