

POSTER PROGRAMME

Posters must be placed on the assigned boards by Wednesday, October 8, 2008, 10:30 at the latest.

Authors are requested to be present at their posters during the poster party on **Wednesday, October 8, 2008, from 17:25 until 19:30.**

Posters will also be viewed and discussed during the coffee breaks and lunch.

New Syntheses and Structures

- 1 **Coordination polymers with multidentate organic ligands**
W.-Y. Sun, Nanjing University/PRC
- 2 **From microporous polymers to covalent organic frameworks**
P. Kuhn, J. Weber, M.J. Bojdys, J. Schmidt, A. Thomas, MPI of Colloids and Interfaces, Potsdam/D
- 3 **A first step towards the construction of porous and magnetic radical-based metal-organic frameworks on top of self-assembled monolayers**
O. Shekhah, University of Bochum/D; N. Roques, V. Mugnaini, C. Munuera, C. Ocal, Institut de Ciència de Materials de Barcelona/E; C. Wöll, University of Bochum/D; J. Veciana, Institut de Ciència de Materials de Barcelona/E
- 4 **Ionothermal synthesis of crystalline, covalent, graphitic carbon nitride**
M.J. Bojdys, M. Antonietti, A. Thomas, MPI of Colloids and Interfaces, Potsdam/D
- 5 **Reversible guest-induced topochemical modifications in [Cu(m-pz)₂]_n 1D metal-organic frameworks. A DFT investigation**
M. Casarin, F. Garau, L. Pandolfo, University of Padova/I; N. Masciocchi, University of Insubria, Como/I; C. Pettinari, University of Camerino/I; A. Vittadini, ISTM CNR and INSTM, Padova/I
- 6 **Element-organic frameworks with high permanent porosity**
M. Rose, TU Dresden/D; W. Böhlmann, University of Leipzig/D; S. Kaskel, TU Dresden/D
- 7 **Isosymmetrical reversible structural transitions in Mn(Bpy)(VO_{3/2})•(H₂O)_{1.25} due to the hydration-dehydration process**
R.F. de Luis, J.L. Mesa, M.K. Urtiaga, M.I. Arriortua, T. Rojo, Universidad del País Vasco, Bilbao/E

POSTER PROGRAMME

- 8 **A three dimensional hydrogen bond Co(HBpe)₂(V₄O₁₂) hybrid vanadate. A thermal induced P-1 to P2_{1/c} structural transition**
R.F. de Luis, M.K. Urtiaga, J.L. Mesa, M.I. Arriortua, T. Rojo, Universidad del País Vasco, Bilbao/E
- 9 **Thermal induced isosymmetrical reversible structural transition in Mn(Bpy)_{0.5}(VO_{3/2})•(H₂O)_{0.75}**
R.F. de Luis, M.K. Urtiaga, J.L. Mesa, M.I. Arriortua, T. Rojo, Universidad del País Vasco, Bilbao/E
- 10 **Water sensitivity and mechanical properties of MOF-5**
D. Himsl, M. Hartmann, University of Augsburg/D
- 11 **Microwave-assisted solvothermal synthesis and mechanochemical preparation of [Cu₃(1,3,5-benzenetricarboxylate)₂]**
M. Schlesinger, I. Polenz, M. Mehring, M. Dieblich, S. Schulze, M. Hietschold, Chemnitz University of Technology/D
- 12 **Following the selective growth of metal-organic frameworks on patterned substrates by scanning force microscopy**
C. Munuera, Consejo Superior de Investigaciones Científicas, Barcelona/E; O. Shekhah, Ch. Wöll, University of Bochum/D; C. Ocal, Consejo Superior de Investigaciones Científicas, Barcelona/E
- 13 **The use of aluminium and other p-elements (gallium, indium) for the formation of MOF-type materials**
C. Volkringer, T. Loiseau, N. Guillou, J. Marrot, G. Férey, M. Haouas, F. Taulelle, University of Versailles/F; D. Popov, C. Riekel, ESRF, Grenoble/F; M. Latroche, CNRS, Thiais/F
- 14 **Lightweight metal based metal-organic frameworks: systematic design of pore size**
I. Senkovska, S. Kaskel, TU Dresden/D
- 15 **Crystalline coordination networks constructed with anthracene bridging ligands as a linking group**
H. Motegi, C. Slebodnick, B.E. Hanson, Virginia Polytechnic Institute and State University, Blacksburg, VA/USA
- 16 **Synthesis, structures, and properties of hexafluoro-silicate-bridging metal-pyrazine porous coordination polymers**
K. Uemura, A. Maeda, H. Kita, Yamaguchi University, Ube/J

POSTER PROGRAMME

- 17 **Functionalization of framework in MOF-5 by protection-deprotection method**
T. Yamada, H. Kitagawa, Kyushu University, Fukuoka/J
- 18 **Development of new coordination networks containing transition metals with aromatic polycarboxylates and N-donor ligands**
F. Silva, S. Júnior, Universidade Federal de Pernambuco, Recife/BR
- 19 **Crystal structures and electrochemical properties of novel coordination polymers with tetrahedral pyridyl ligands**
A. Shigematsu, T. Yamada, H. Kitagawa, Kyushu University, Fukuoka/J
- 20 **Microwave synthesis of nanoporous metal carboxylates and their characterization**
Y.-K. Seo, J.W. Yoon, Korea Research Institute of Chemical Technology (KRICT), Daejeon/ROK; S.H. Jhung, Kyungpook National University, Daegu/ROK; Y.K. Hwang, Korea Research Institute of Chemical Technology (KRICT), Daejeon/ROK; C. Serre, G. Férey, University of Versailles/F; J.-S. Chang, Korea Research Institute of Chemical Technology (KRICT), Daejeon/ROK
- 21 **Platinum(II) mediated [2 + 3] cyclo-addition of azide and nitrile: a convenient tool towards heterometallic supramolecular chemistry**
S. Mukhopadhyay, M.A. Januário Charmier, M. Fatima, M.F.C. Guedes da Silva, A.J.L. Pombeiro, Instituto Superior Técnico, Lisbon/P
- 22 **Coordination polymers of lanthanides: crystal engineering, thermal behavior and crystal structure**
N. Rahahlia-Taieb, A. Guehria-Laidoudi, USTHB, Algiers/DZ; S. Dahaoui, C. Lecomte, University of Nancy 1/F
- 23 **Enumeration of not-yet-synthesized zeolitic zinc imidazolate metal-organic framework networks: a topological and DFT/DFTB approach**
I. Baburin, Samara State University/RUS; S. Leoni, MPI for Chemical Physics of Solids, Dresden/D; G. Seifert, TU Dresden/D
- 24 **Three-dimensional coordination polymers based on triaminoguanidine ligands**
J. Bauer, A. Zharkouskaya, W. Plass, University of Jena/D

POSTER PROGRAMME

- 25 **Construction of coordination polymers based on lanthanide(III) ions and pyridin-3,5-dicarboxylic acid**
R. Lyszczyk, A. Ostasz, L. Mazur, Z. Rzaczyńska, Maria Curie-Skłodowska University, Lublin/PL
- 26 **Non-isorecticular metal-organic frameworks using rigid, carboxylate-based ligands**
E. Neofotistou, P. Trikalitis, University of Crete, Heraklion/GR
- 27 **Functionalized organosilicas for gas storage applications**
V. Binas, P. Trikalitis, University of Crete, Heraklion/GR
- 28 **Novel functionalized metal-organic frameworks and polyhedra with exposed lewis base sites**
I. Papadaki, P. Trikalitis, University of Crete, Heraklion/GR
- 29 **Metal-organic frameworks containing silicon-based ligands**
R.J. Less, University of Cambridge/UK; R.P. Davies, P.D. Lickiss, A.J.P. White, Imperial College, London/UK
- 30 **3,3',4,4'-benzophenonetetracarboxylic acid – novel ligand for construction of coordination polymers**
A. Ostasz, R. Lyszczyk, L. Mazur, Z. Rzaczyńska, Maria Curie-Skłodowska University, Lublin/PL
- 31 **Spectroscopy characterization and evidence of energy transfer in heterobimetallic lanthanide-organic frameworks**
S. Alves Junior, M.O. Rodrigues, Universidade Federal de Pernambuco, Recife/BR; L.O. Nunes, Universidade de São Paulo, São Carlos/BR; W.M. Azevedo, Universidade Federal de Pernambuco, Recife/BR
- 32 **Tetrakisphenylmethanes and 1,3,5,7-tetrakisphenyladamantanes: peripheral chiral ligands for the generation of chiral metal-organic frameworks**
O. Plietzsch, C.I. Schilling, S. Bräse, University of Karlsruhe/D
- 33 **Design and synthesis of molecular organic frameworks based on fullerene ligands**
P. Pierrat, C. Réthoré, S. Bräse, University of Karlsruhe/D
- 34 **Spectroscopic and thermal properties of lanthanides (III) complexes with 4,4'-biphenyldicarboxylic acid**
J. Sienkiewicz, Z. Rzaczyńska, A. Kula, Maria Curie-Skłodowska University, Lublin/PL
- 35 **New alkali metal coordination polymers derived from 3-(4-hydroxy-3-methoxyphenyl)-2-propenoic acid**
L. Mazur, Z. Rzaczyńska, A. Kula, Maria Curie-Skłodowska University, Lublin/PL

POSTER PROGRAMME

- 37 **Crystal networking strategies using metal carboxylates and N-donor building blocks**
M. Almáši, M. Špaková, M. Burcák, Z. Vargová, V. Zelenák, P.J. Šafárik, University Košice/SK; R. Gyepes, Charles University, Prague/CZ
- 38 **Synthesis and morphology of zeolitic imidazolate frameworks**
M. Gustafsson, C. Bonneau, M. Kritikos, X. Zou, Stockholm University/S
- 39 **Solvothermal synthesis and characterization of porous lanthanide carboxylates**
T. Devic, University of Versailles/F; A. Vimont, LCS, Caen/F; O. David, C. Serre, University of Versailles/F; M. Daturi, LCS, Caen/F; J. Marrot, G. Férey, University of Versailles/F
- 40 **Spectroscopy and diffraction studies of adsorption on the large pore metal bisphosphonate, STA-12**
S.R. Miller, G.M. Pearce, P.A. Wright, University of St. Andrews/UK; S. Chavan, F. Bonino, S. Bordiga, University of Turin/I; S. Bourrelly, P. Llewellyn, CNRS, Marseille/F; I. Margiolaki, ESRF, Grenoble/F; N. Guillou, G. Férey, University of Versailles/F
- 41 **Metal-organic frameworks with electron poor aromatic linkers**
K. Domasevitch, Kiev University/UA; P. Schmiedel, H. Krautscheid, University of Leipzig/D
- 42 **Investigations on Fe(II) and Co(II) frameworks containing naphthalene dicarboxylate linkers**
P. Schmiedel, H. Krautscheid, University of Leipzig/D
- 43 **Synthesis and structural characterisation of new magnesium carboxylates**
M. Mazaj, V. Kaucic, N. Zabukovec Logar, National Institute of Chemistry, Ljubljana/SLO
- 44 **New Cr^{III}, V^{III/IV}-based functionalized flexible metal-organic frameworks of the MIL-53 structure type**
V. Guillerm, A. Lieb, C. Serre, T. Devic, University of Versailles/F; A. Vimont, M. Daturi, University of Caen/F; G. Férey, University of Versailles/F
- 45 **New synthetic routes to porous metal(IV) carboxylates**
C. Serre, V. Guillerm, T. Devic, M. Dan, G. Férey, University of Versailles/F

POSTER PROGRAMME

- 46 **Porous zirconium-organic framework materials**
B. Papendorf, A. Schaate, P. Behrens, M. Wiebcke, University of Hanover/D
- 47 **A series of Fe^{III}-based functionalized flexible porous metal-organic frameworks: synthesis, characterization and breathing properties**
P. Horcajada, C. Serre, T. Devic, University of Versailles/F; G. Maurin, F. Salles, University of Montpellier 2/F; S. Bourrelly, P. Llewellyn, University of Provence, Marseille/F; S. Bauer, N. Stock, University of Kiel/D; G. Férey, University of Versailles/F
- 48 **Key processes in the standard synthesis and the structural formation of zinc carboxylate based metal-organic frameworks**
S. Hausdorf, J. Seidel, W. Seichter, E. Weber, F. Mertens, TU Bergakademie Freiberg/D
- 49 **Design of 3-dimensional frameworks by planar-like metal coordination of tetrahedral linkers**
I. Weber, W. Seichter, F. Mertens, TU Bergakademie Freiberg/D
- 50 **New network coordinations with transition metals and aromatic polycarboxylates**
F. Silva, S. Júnior, Universidade Federal de Pernambuco, Recife/BR
- 51 **Structure analysis of [Ru(cod)(cot)]@MOF-5 from XRD powder data**
B. Marler, F. Schröder, R. Fischer, University of Bochum/D
- 52 **4,5-Dicyanoimidazole – new organic precursors for the synthesis of porous metal-organic frameworks**
M. Junginger, H. Müller, A. Kelling, F. Debatin, U. Schilde, H.-J. Holdt, University of Potsdam/D; A. Thomas, MPI of Colloids and Interfaces, Potsdam/D
- 53 **Structures and guest-recognition properties of one-dimensional Cu(II) coordination polymer**
S. Noro, T. Akutagawa, T. Nakamura, Hokkaido University, Sapporo/J; S. Horike, D. Tanaka, H. Sakamoto, S. Kitagawa, Kyoto University/J
- 54 **Systematic studies on the postsynthetic modification of metal-organic frameworks**
K.K. Tanabe, Z. Wang, S.M. Cohen, University of California, La Jolla, CA/USA

POSTER PROGRAMME

- 55 **Tandem modification of metal-organic frameworks via postsynthetic approach**
Z. Wang, S.M. Cohen, University of California, La Jolla, CA/USA
- 56 **A new class of 3-D porous framework: [Ln(H₂O)_n]³⁺ ions act as pillars between π -stacked and H-bonded sheets of (M-BDTH)⁻ organic anions in [Ln(H₂O)_n](m-BDTH)₃·9(H₂O)**
G.E. Kostakis, C.E. Anson, A.K. Powell, University of Karlsruhe/D
- Gas and Liquid Adsorption**
- 58 **A complete understanding of water adsorption in rigid and breathing metal-organic frameworks: a combination of complementary experimental tools**
S. Devautour-Vinot, J.C. Giuntini, University of Montpellier 2/F; T. Devic, C. Serre, F. Millange, University of Versailles/F; S. Bourrelly, P. Llewellyn, University of Provence, Marseille/F; G. Férey, University of Versailles/F; G. Maurin, University of Montpellier 2/F
- 59 **Universal force field parameters for fast and reliable H₂ uptake predictions of metal-organic frameworks based on Monte Carlo simulations**
F. Hoffmann, M. Fischer, M. Fröba, University of Hamburg/D
- 60 **Study of the adsorption sites in the metal-organic framework Cu-BTC using molecular simulation**
E. Garcia-Perez, University Pablo de Olavide, Sevilla/E; J. Gascón, F. Kapteijn, Delft University of Technology/NL; V. Morales-Florez, University of Sevilla/E; J.M. Castillo, S. Calero, University Pablo de Olavide, Sevilla/E
- 61 **High NO adsorption on Ni(II) ions in CPO-27 metal-organic framework**
F. Bonino, S. Chavan, L. Regli, J.G. Vitillo, E. Groppo, C. Lamberti, S. Bordiga, A. Zecchina, University of Turin/I; C. Prestipino, ESRF, Grenoble/F; P.D.C. Dietzel, SINTEF Materials and Chemistry, Oslo/N and University of Oslo/N
- 62 **A comparison of metal-organic frameworks and zeolites as nitric oxide storage and delivery materials**
P.S. Wheatley, A.C. McKinlay, R.E. Morris, University of St. Andrews/UK
- 63 **Gas storage and separation in metal and covalent-organic frameworks: atomistic simulation study**
R. Babarao, J. Jiang, National University of Singapore/SGP

POSTER PROGRAMME

- 64 **High pressure methane storage in metal-organic frameworks**
I. Senkowska, S. Kaskel, TU Dresden/D
- 65 **H₂ adsorption in metal-organic frameworks: dispersion or electrostatic interactions?**
A. Kuc, TU Dresden/D; T. Heine, Jacobs University Bremen/D; G. Seifert, TU Dresden/D
- 66 **Adsorption and co-adsorption in flexible metal-organic framework materials: molecular simulations compared to experiments**
A. Ghoufi, N. Rosenbach, University of Montpellier 2/F; S. Bourrelly, P. Llewellyn, University of Provence, Marseille/F; T. Devic, C. Serre, G. Férey, University of Versailles/F; G. Maurin, University of Montpellier 2/F
- 67 **Water adsorption on metal-organic frameworks**
P. Küsgens, M. Rose, S. Kaskel, TU Dresden/D
- 68 **Structural effects of the nature of solvents on the breathing of metal-organic frameworks: an *in situ* diffraction study**
E. Millange, C. Serre, N. Guillou, G. Férey, University of Versailles/F; R.I. Walton, University of Warwick/UK
- 69 **Investigation of the breathing effect of MIL-53 metal-organic frameworks compared to MIL-47 rigidity upon adsorption of pure H₂S and CH₄ and their binary mixture**
L. Hamon, Faculté Polytechnique de Mons/B; G. Maurin, A. Ghoufi, University of Montpellier 2/F; C. Serre, T. Devic, T. Loiseau, G. Férey, University of Versailles/F; G. De Weireld, Faculté Polytechnique de Mons/B
- 70 **Understanding the adsorption of water on metal-organic frameworks**
J.M. Castillo, S. Calero, University Pablo de Olavide, Sevilla/E
- 71 **Separation of aromatic hydrocarbons by metal-organic frameworks**
D. Peralta, K. Barthelet, G. Pirngruber, IFP, Vernaison/F; F. Millange, University of Versailles/F
- 72 **Adsorption and beyond: using molecular simulation to understand adsorption in metal-organic frameworks**
C. Prosenjak, P. Lozano-Casal, T. Düren, University of Edinburgh/UK
- 73 **Stepwise adsorption/desorption via shrunk intermediate state on jungle-gym-type porous coordination polymers**
K. Uemura, Y. Yamasaki, H. Kita, Yamaguchi University, Ube/J

POSTER PROGRAMME

- 74 **Adsorption of carbon dioxide in metal-organic frameworks at moderate pressures: effect of pore size, open metal sites, and functionalized ligands**
J.R. Karra, K.S. Walton, Kansas State University, Manhattan, KS/USA
- 75 **Synthesis and gas-sorption characteristics of a porous coordination solid, cobalt pyridine-dicarboxylate**
J.W. Yoon, Y.K. Hwang, Korea Research Institute of Chemical Technology (KRICT), Daejeon/ROK; S.H. Jung, Kyungpook National University, Daegu/ROK; S.M. Humphrey, P.T. Wood, University of Cambridge/UK; J.-S. Chang, Korea Research Institute of Chemical Technology (KRICT), Daejeon/ROK
- 76 **Characterization of a flexible metal-organic framework material by means of low temperature gas adsorption with cryogenic device**
K. Nakai, BEL Japan Inc., Osaka/J; D. Tanaka, S. Kitagawa, Kyoto University/J
- 77 **Improving hydrogen storage capacity of metal-organic frameworks by functionalization of the organic linker with lithium atoms**
E. Klontzas, A. Mavrandonakis, E. Tylianakis, G.E. Froudakis, University of Crete, Heraklion/GR
- 78 **Hydrogen storage in metal-organic frameworks**
S. Gazard, P.D. Lickiss, A.J.P. White, Imperial College, London/UK
- 79 **Heat of adsorption for hydrogen in metal-organic frameworks**
B. Schmitz, M. Hirscher, MPI for Metals Research, Stuttgart/D
- 80 **Phase transitions and CO₂ adsorption of polymeric magnesium formate**
A. Rossin, ICCOM-CNR, Florence/I; F. Costantino, University of Perugia/I; B. Di Credico, ICCOM-CNR, Florence/I; P. Fornasiero, University of Trieste/I; L. Gonsalvi, A. Lenco, ICCOM-CNR, Florence/I; T. Montini, University of Trieste/I; M. Peruzzini, ICCOM-CNR, Florence/I
- 81 **IM-19: a flexible microporous gallium-containing metal-organic framework**
G. Chaplais, A. Simon-Masseron, J. Patarin, Université de Haute Alsace, Mulhouse/F; N. Bats, D. Bazer-Bachi, IFP, Lyon/F

POSTER PROGRAMME

- 82 **Adsorption studies on the small pore scandium terephthalate Sc₂(O₂CC₆H₄CO₂)₃**
S.R. Miller, P.A. Wright, University of St. Andrews/UK; T. Devic, C. Serre, G. Férey, University of Versailles/F; S. Bourrelly, L. Gaberova, P. Llewellyn, CNRS, Marseilles/F; Y. Filinchuk, ESRF, Grenoble/F
- 83 **Structure and function of TCNQ based porous coordination polymers**
S. Shimomura, S. Horike, R. Matsuda, S. Kitagawa, University of Kyoto/J
- 84 **Adsorption dynamics of organic compounds in the metal-organic frameworks MIL-47, MIL-53 and CuBTC**
V. Finsy, Vrije Universiteit Brussel/B; D.E. De Vos, Katholieke Universiteit Leuven/B; G.V. Baron, J.F.M. Denayer, Vrije Universiteit Brussel/B
- 85 **Confinement effects in the vapour phase adsorption of xylene isomers on the metal-organic framework MIL-47**
V. Finsy, G. Vedts, Vrije Universiteit Brussel/B; M. Maes, L. Alaerts, D.E. De Vos, Katholieke Universiteit Leuven/B; G.V. Baron, J.F.M. Denayer, Vrije Universiteit Brussel/B
- 86 **Biogas-upgrading by selective removal of CO₂ using microporous metal-organic frameworks**
M. Schindler, S. Ernst, University of Kaiserslautern/D
- 87 **Coupling several methods to measure coadsorption on metal-organic frameworks: large pore (MIL-100 & MIL-101) and flexible (MIL-53) materials**
P. Llewellyn, S. Bourrelly, Laboratoire Chimie Provence, Marseille/F; C. Serre, T. Devic, G. Férey, University of Versailles/F; A. Vimont, M. Daturi, LCS, Caen/F; Y. Filinchuk, SNBL-ESRF, Grenoble/F; G. Maurin, Institut Gerhardt, Montpellier/F
- 88 **Adsorption, microcalorimetry and in situ XRPD of polar vapours adsorbed in the flexible MIL-53 metal-organic frameworks**
S. Bourrelly, S. Loera-Serna, R. Denoyel, P. Llewellyn, Laboratoire Chimie Provence, Marseille/F; T. Devic, P. Horcajada, C. Serre, F. Millange, G. Férey, University of Versailles/F; Y. Filinchuk, SNBL-ESRF, Grenoble/F; G. Maurin, Institut Gerhardt, Montpellier/F

POSTER PROGRAMME

- 89 **How linker functionalisation affects the breathing behaviour of the flexible nanoporous metalocarboxylates MIL-88**
P. Horcajada, T. Devic, C. Serre, O. David, University of Versailles/F; S. Bauer, N. Stock, University of Kiel/D; G. Férey, University of Versailles/F
- 90 **Characterization of the acid-base properties of porous MIL-100 and MIL-101 metal-organic frameworks for the CO₂ storage – a comparison with alkali exchanged faujasites**
A. Vimont, J.C. Lavalley, H. Leclerc, M. Daturi, University of Caen/F; S. Bourrelly, P. Llewellyn, University of Provence, Marseille/F; S. Surblé, C. Serre, G. Férey, University of Versailles/F
- 91 **Kinetic gate-opening process in a flexible porous coordination polymer**
D. Tanaka, K. Nakagawa, S. Hosike, H. Masakazu, S. Kitagawa, Kyoto University/J
- 92 **Guest selective adsorption on flexible microporous coordination polymers**
R. Matsuda, Japan Science and Technology Agency, Kyoto/J; Y. Kubota, Osaka Prefecture University/J; M. Takata, RIKEN, Hyogo/J; S. Kitagawa, Kyoto University/J
- 93 **DFT and ab-initio study of dihydrogen interaction with new lithiated organic linkers suitable for hydrogen storage applications**
A. Mavrandonakis, Forschungszentrum Karlsruhe GmbH/D; W. Klopffer, University of Karlsruhe/D

Novel Applications and Physical Properties

- 94 **Metal-organic framework compounds as host materials for optically switchable complexes**
U. Ruschewitz, C. Seidel, D. Schaniel, A. Schuy, Th. Woike, University of Cologne/D
- 95 **Tuning the absorption edge of ZnO metal-organic frameworks**
J. Gascon, A.R. Almeida, M.D. Hernandez-Alonso, G.P.M. van Klink, G. Mul, F. Kapteijn, Delft University of Technology/NL
- 96 **Exceptional behaviour over the whole adsorption-storage-delivery cycle for NO in metal-organic frameworks**
A.C. McKinlay, P.S. Wheatley, D.S. Wragg, B. Xiao, University of St. Andrews/UK; I.L. Megson, UHI Millenium Institute, Inverness/UK; R.E. Morris, University of St. Andrews/UK

POSTER PROGRAMME

- 97 **Inorganic-organic hybrids based on metal phosphonates. Applications in anti-corrosion protective coatings**
K. Demadis, M. Papadaki, E. Barouda, University of Crete, Heraklion/GR
- 98 **Porous metal bis- and tetrakis-phosphonate hybrids**
M. Aranda, A. Cabeza, R.M.P. Colodrero, P. Olivera-Pastor, Universidad de Málaga/E; A. Clearfield, Texas A&M University, College Station, TX/USA; D. Villemin, University of Caen/F; R.E. Morris, University of St. Andrews/UK
- 99 **Zn(II)oligo(phenyleneethynylene)dicarboxylate coordination polymers**
A. Schaate, University of Hanover/D; M. Schulte, Bielefeld University/D; M. Wiebcke, University of Hanover/D; A. Godt, Bielefeld University/D; P. Behrens, University of Hanover/D
- 100 **Hydrothermal stability of metal-organic frameworks: combinatorial steaming, molecular modeling, and in situ x-ray diffraction**
R. Willis, A. Benin, S. Faheem, J. Abrahamian, J. Low, UOP LLC, a Honeywell Company, Des Plaines, IL/USA
- 101 **ESR spectroscopy of cupric ions in Cu₃(BTC)₂**
A. Pöppl, M. Bertmer, University of Leipzig/D; S. Kunz, D. Himsl, M. Hartmann, University of Augsburg/D
- 102 **Force fields for metal-organic frameworks parameterized systematically from first principles using a genetic algorithm approach**
M. Tafipolsky, R. Schmid, University of Bochum/D
- 103 **Mixed lanthanides-based metal-organic framework: preparation and photoluminescence**
S. Gross, University of Padova/I; T. Devic, University of Versailles/F; M. Pascolini, University of Padova/I; C. Serre, G. Férey, University of Versailles/F; E. Tondello, University of Padova/I
- 104 **New solid trap based in metal-organic frameworks for dynamic headspace analysis**
K.A. Wanderley, M.O. Rodrigues, D.M.F. Navarro, S.A. Junior, Universidade Federal de Pernambuco, Recife/BR
- 105 **Towards functional materials by incorporating metal complexes in metal-organic frameworks**
L.P.J. Veraart, R. de Gelder, J.M.M. Smits, A.E. Rowan, F.F.B.J. Janssen, Radboud University Nijmegen/NL

POSTER PROGRAMME

- 106 **Luminescent rare earth amide metal-organic frameworks: a way to new phosphors?**
K. Müller-Buschbaum, C.J. Höller, R. Köhn, University of Munich/D; C. Wickleder, University of Siegen/D; C. Feldmann, TU Karlsruhe/D
- 107 **Lanthanides organic frameworks: a theoretical and experimental comparison of the structural and spectroscopic properties**
S. Alves Junior, M.O. Rodrigues, Universidade Federal de Pernambuco, Recife/BR; R.O. Freire, Universidade Federal de Sergipe, Aracaju/BR; W.M. Azevedo, Universidade Federal de Pernambuco, Recife/BR
- 108 **Fluorescent dye doped metal-organic frameworks**
D. Zacher, M. Ma, R.A. Fischer, N. Metzler-Nolte, University of Bochum/D
- 109 **Self-diffusion and adsorption of hydrocarbons in CuBTC**
M. Wehring, F. Stallmach, University of Leipzig/D; J. Gascon, F. Kapteijn, Delft University of Technology/NL
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POSTER PROGRAMME

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- 116 **Preparation and evaluation of metal-organic frameworks as drug delivery systems**
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- 117 **Doped metal-organic frameworks capable of conducting protons at temperatures >120 °C**
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Catalysis and Reactions

- 119 **A computational investigation of framework effects on enantioselective catalysis**
G.A. Emberger, R.Q. Snurr, L.J. Broadbelt, Northwestern University, Evanston, IL/USA
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W. Kleist, M. Maciejewski, F. Jutz, A. Baiker, ETH Zurich/CH
- 121 **Highly active Pd/MIL-101 for catalytic gas-phase hydrogenations**
R. Kraehnert, D. Linke, Leibniz Institute for Catalysis, Berlin/D; A. Henschel, S. Kaskel, TU Dresden/D
- 122 **Ru nanoparticles@MOF-5: a model system for colloidal Ru particles**
F. Schröder, D. Esken, M. van den Berg, University of Bochum/D; O.I. Lebedev, University of Antwerp/B; B. Walaszek, G. Buntkowsky, University of Jena/D; R.A. Fischer, University of Bochum/D
- 123 **Loading of [Zn₄O(bdc)₃] (MOF-5) and [Zn₄O(btb)₂] (MOF-177) with metal and metaloxide nanoparticles by gas-phase infiltration with organometallic precursors: properties of Cu/ZnO/MOF as catalysts for methanol synthesis**
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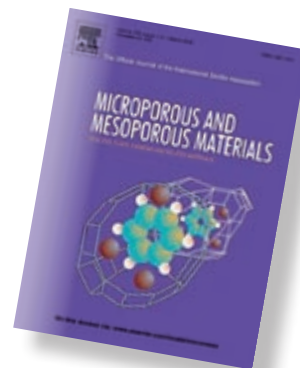
POSTER PROGRAMME

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- 126 **Comparison of liquid- and gas-phase loading of MOF-5 with Pd-precursors and influence of stabilizing additives on the nanoparticle formation**
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- 128 **Catalytic activity of MIL-101 in cyanosilylation reaction**
 K. Gedrich, S. Kaskel, TU Dresden/D
- 130 **First results in applications of metal-organic frameworks in selective catalysis**
 J. Harloff, University of Rostock/D; H. Kosslick, Leibniz Institute for Catalysis e.V. at the University of Rostock/D; A. Schulz, University of Rostock/D; K. Junge, T. Schareina, M. Beller, Leibniz-Institute for Catalysis e.V. at the University of Rostock/D

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