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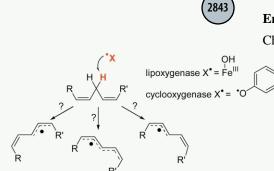
Cover (far left)

Receptor complexes showing cation-pi interactions. Such interactions may be of significance in biological systems.

Inside cover (left)

A self-assembled metallosupramolecular tetrahedron (edge length approximately 2 nm), binding four $[K(dmf)_{s}]^{+}$ -units in its huge internal cavity.

I CONTENTS



Enzymatic hydrogen atom abstraction from polyunsaturated fatty acids

Chris M. McGinley and Wilfred A. van der Donk*

The oxidation of polyunsaturated fatty acids by prostaglandin synthase and the lipoxygenases provides an impressive example of enzymatic control of hydrogen atom abstraction and subsequent oxygenation.



FEATURE ARTICL

The aromatic sidechains of amino acids as neutral donor groups for alkali metal cations

George W. Gokel*

Interactions between neutral pi-donors and sodium or potassium cations, demonstrated here, are potentially important in nature.

COMMUNICATION

2854

A metallosupramolecular tetrahedron with a huge internal cavity

Markus Albrecht,* Ingo Janser, Sebastian Meyer, Patrick Weis and Roland Fröhlich

A huge molecular tetrahedral complex forms quantitatively by self-assembly from four ligands L-H₆ and four titanium(IV) ions; in the solid state it encapsulates four $\{K(DMF)_3\}^+$ units in its interior.

i

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2856

2858

1-Ba2+

2860

2862

2864

hν

1 + Ba²

Novel alignment technique for LCD-biosensors

Johan Hoogboom, Joost Clerx, Matthijs B. J. Otten, Alan E. Rowan,* Theo Rasing* and Roeland J. M. Nolte*

The directional drying of a Tris–EDTA buffer on a PI–ITO surface results in the formation of a well-ordered alignment layer, underpinned by the formation of an extensive hydrogen bond network. The surface ordering is sufficient to give visible alignment of the nematic liquid crystal 5CB. When λ -phage DNA is added to the drying droplet, a cholesteric fan-phase is observed along the path of the drying droplet, making this a simple, yet effective system for the detection of biomolecules.

Photoinduced Ba²⁺ release and thermal rebinding by an azacrown ether linked by an alkynyl pyridine to a (bpy)Re(CO)₃ group

Jared D. Lewis and John N. Moore*

Complex $1-Ba^{2+}$ acts as a reversible light-controlled ion switch: Ba^{2+} is released in *ca*. 10 ns on UV excitation, and rebinds thermally from bulk solution in *ca*. 1 µs.

A bilayer to monolayer phase transition in liquid crystal glycolipids

Valérie Molinier, Paul H. J. Kouwer, Yves Queneau,* Juliette Fitremann, Grahame Mackenzie and John W. Goodby*

Investigations of the thermotropic liquid-crystalline properties of 6,6'-di-*O*-stearoylsucrose show, for the first time, that glycolipids can exhibit phase transitions within the smectic A phase.

The C-terminal ester of membrane anchored peptide ion channels affects anion transport

Natasha Djedovic, Riccardo Ferdani, Egan Harder, Jolanta Pajewska, Robert Pajewski, Paul H. Schlesinger and George W. Gokel*

The C-terminal ester residue of heptapeptide anion channels having N-terminal anchor chains affects ion transport and apparently serves as a "secondary" membrane anchor.

Self-assembly of a unique hexadecanuclear $[4\times(2\times2)]\mbox{-Pb}_{16}$ 'grid of grids' type structure

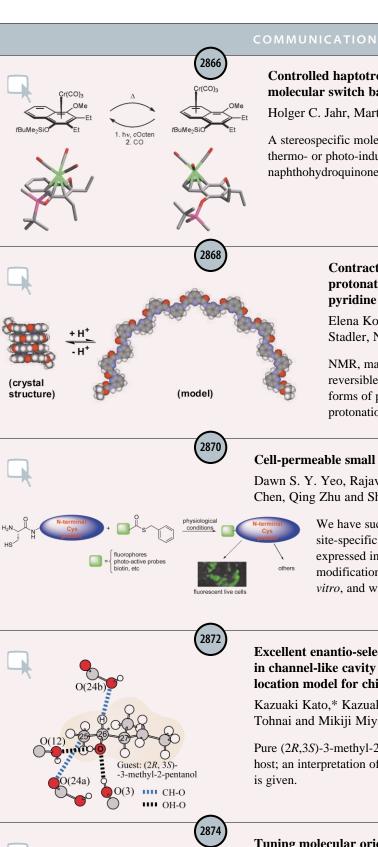
Stuart T. Onions, Anthony M. Frankin, Peter N. Horton, Michael B. Hursthouse and Craig J. Matthews*

The power of ligand and metal ion self-assembly is highlighted by the formation of a unique hexadecanuclear $[4 \times (2 \times 2)]$ 'grid of grids' type structure with truly nanometric dimensions.

- GIV

Gly RO, Gly

iii



Controlled haptotropic rearrangements – towards a stereospecific molecular switch based on chiral arene chromium complexes

Holger C. Jahr, Martin Nieger and Karl Heinz Dötz*

A stereospecific molecular switch has been designed based on a reversible thermo- or photo-induced haptotropic shift of a Cr(CO)₃ fragment along a naphthohydroquinone skeleton.

Contraction/extension molecular motion by protonation/deprotonation induced structural switching of pyridine derived oligoamides

Elena Kolomiets, Volker Berl, Ibon Odriozola, Adrian-Mihail Stadler, Nathalie Kyritsakas and Jean-Marie Lehn*

NMR, mass spectrometry and X-ray diffraction studies show reversible structural interconversion between helical and extended forms of pyridine derived oligoamide molecular strands, by simple protonation/deprotonation

Cell-permeable small molecule probes for site-specific labeling of proteins

Dawn S. Y. Yeo, Rajavel Srinivasan, Mahesh Uttamchandani, Grace Y. J. Chen, Qing Zhu and Shao Q. Yao*

> We have successfully synthesized small molecule probes designed for site-specific labeling of N-terminal cysteine-containing proteins expressed in live cells. Their utility for site-specific, covalent modifications of proteins was demonstrated with purified proteins in vitro, and with live bacterial cells in vivo.

Excellent enantio-selective enclathration of (2R,3S)-3-methyl-2-pentanol in channel-like cavity of 3-epideoxycholic acid, interpreted by the fourlocation model for chiral recognition

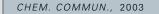
Kazuaki Kato,* Kazuaki Aburaya, Yasuhito Miyake, Kazuki Sada, Norimitsu Tohnai and Mikiji Miyata*

Pure (2R,3S)-3-methyl-2-pentanol is resolved from the racemates by a steroidal host; an interpretation of the recognition mechanism based on the crystal structure

Tuning molecular orientation with STM at the solid/liquid interface

Qing-Min Xu, Mei-Juan Han, Li-Jun Wan,* Chen Wang, Chun-Li Bai,* Bing Dai and Jin-Long Yang

With bias stimulation, the molecules are tuned at different orientations on Cu(111) surface from flat, to tilt, to vertical. The tuning is completely bias dependent and reversible.



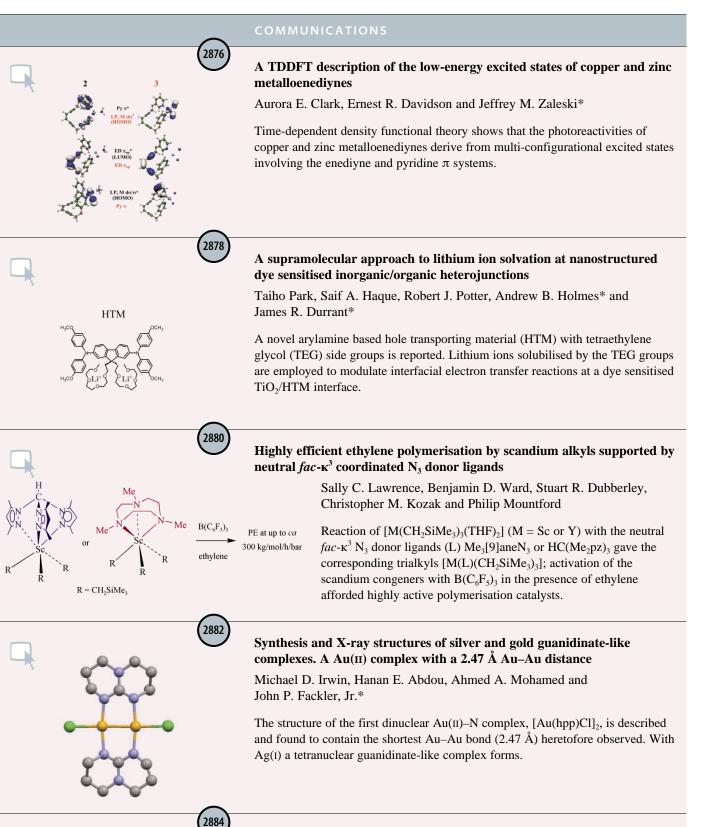
Flat

Tilt

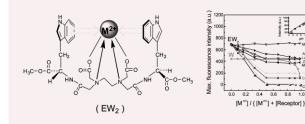
Cu(111)-Working Electrode

Vertical

Bias



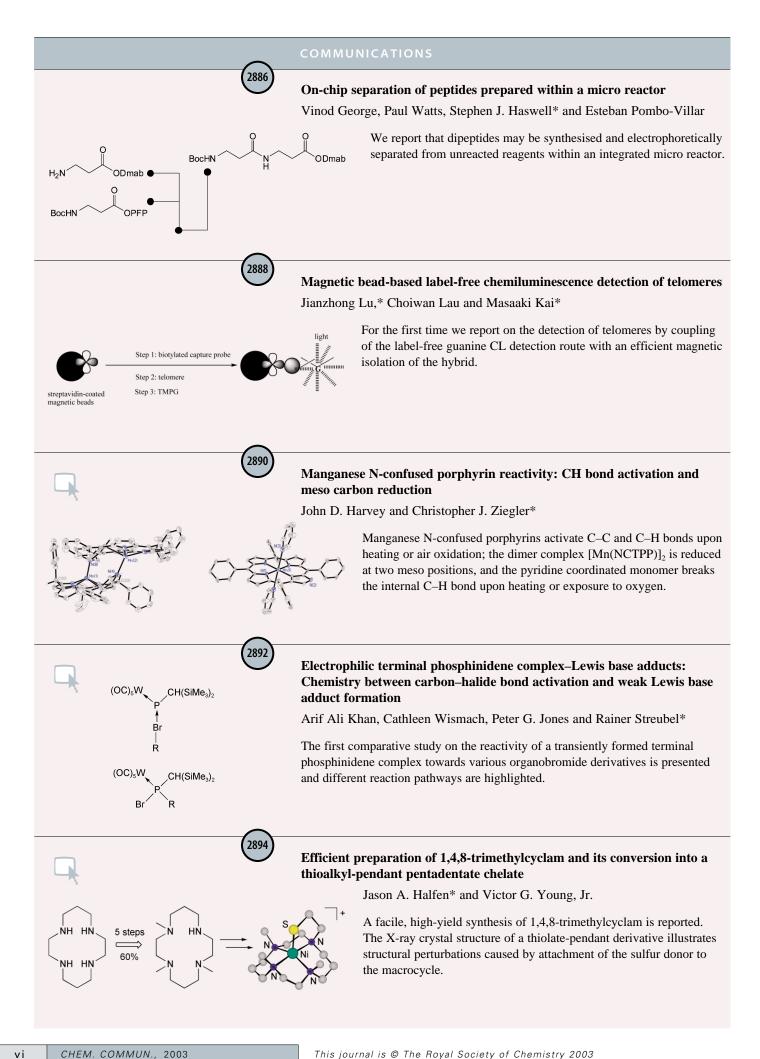
A rationally designed novel receptor for probing cooperative interaction between metal ions and bivalent tryptophan side chain in solution

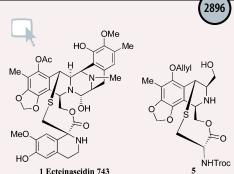


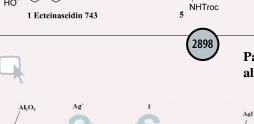
Yitong Li and Chi Ming Yang*

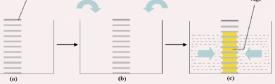
Cooperative interactions between transition metal ions and bivalent tryptophan are identified in water by fluorescence quenching of a novel receptor, EDTA-bis(L-tryptophan methyl ester), which is demonstrated to be highly selective for copper(II) and iron(II).

v









 $HO \longrightarrow CH_{2} COOCH_{3} O OH HCNHOCCH_{2}S O OH HCNHOCCH_{2}S O CH_{3} O CH_{3} CH_{3} CH_{3} O CH_{3} CH_{3} CH_{3} O CH_{3} CH_{3} CH_{3} O CH_{3} CH_{3$

Synthetic studies on ecteinascidin 743: rapid access to the fully functionalized tetrahydroisoquinoline with a bridged 10-membered sulfur containing macrocycle

Michaël De Paolis, Angèle Chiaroni and Jieping Zhu*

Convergent synthesis of tetrahydroisoquinoline **5** featuring key Pictet–Spengler reaction of acid sensitive amino diol and macrocyclization *via* C–S bond formation is described.

Paired cell for the preparation of AgI nanowires using nanoporous alumina membrane templates

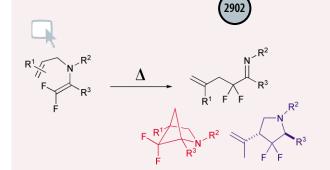
Yuanzhe Piao and Hasuck Kim*

This communication describes a relatively new and simple method for the preparation of AgI nanowires using nanoporous alumina membrane templates which can be easily extended to prepare nanowires of many other inorganic materials.

A tyrosine-modified hypocrellin B with affinity for and photodamaging ability towards calf thymus DNA

Sheng Qin Xia, Jia Hong Zhou, Jing Rong Chen, Xue Song Wang* and Bao Wen Zhang*

An enhanced photodamaging ability towards CT-DNA was achieved in a tyrosinemodified hypocrellin B by improving the affinity of the sensitizer to DNA.



Unusual reactions of *N*-allylic difluoroenamines under thermal conditions

Hideki Amii, Yutaka Ichihara, Takashi Nakagawa, Takeshi Kobayashi and Kenji Uneyama*

N-Allylic difluoroenamines exhibited unusual behaviors under thermal conditions. Heating *N*-allyl difluoroenamines in refluxing xylene afforded not only aza-Claisen rearrangement products, but also 2-azabicyclo[2.1.1]hexanes. In contrast, *N*-prenyl difluoroenamine underwent an ene reaction to give the pyrrolidine as a sole product.

Noncovalent functionalization of multi-walled carbon nanotubes by pyrene containing polymers

Petar Petrov, Fabrice Stassin, Christophe Pagnoulle and Robert Jérôme*

The surface modification of MWNTs by pyrene containing polymers is a very efficient method for making them dispersible in water, and in a variety of organic solvents and for preparing homogeneous nanocomposites.

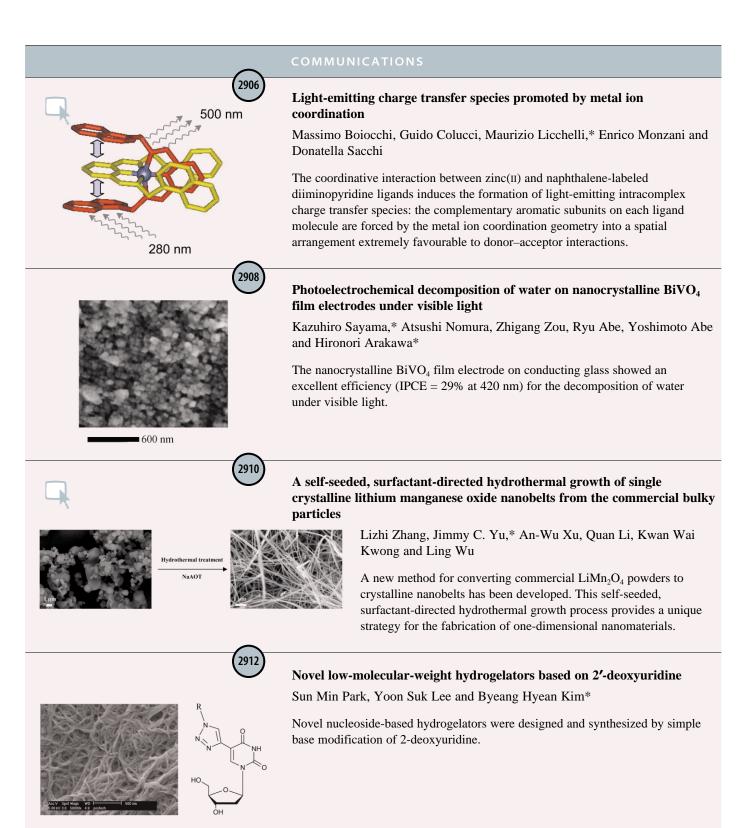


290

OCH₃

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vii





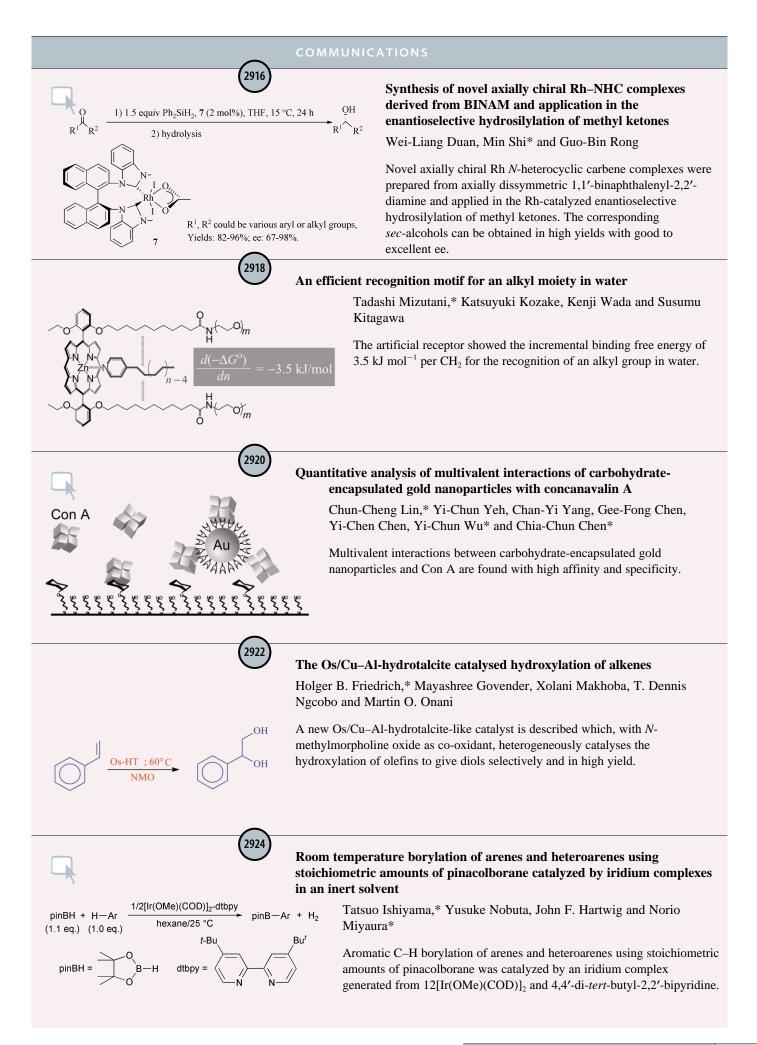
Synthesis and properties of thiazoline based ionic liquids derived from the chiral pool

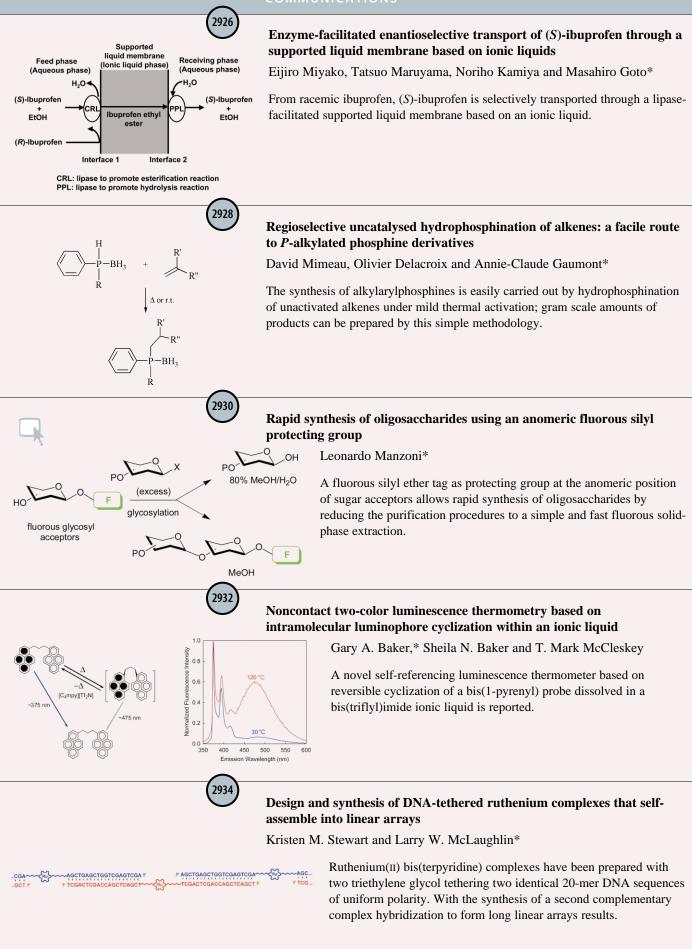
Jocelyne Levillain, Guillaume Dubant, Isabelle Abrunhosa, Mihaela Gulea and Annie-Claude Gaumont*

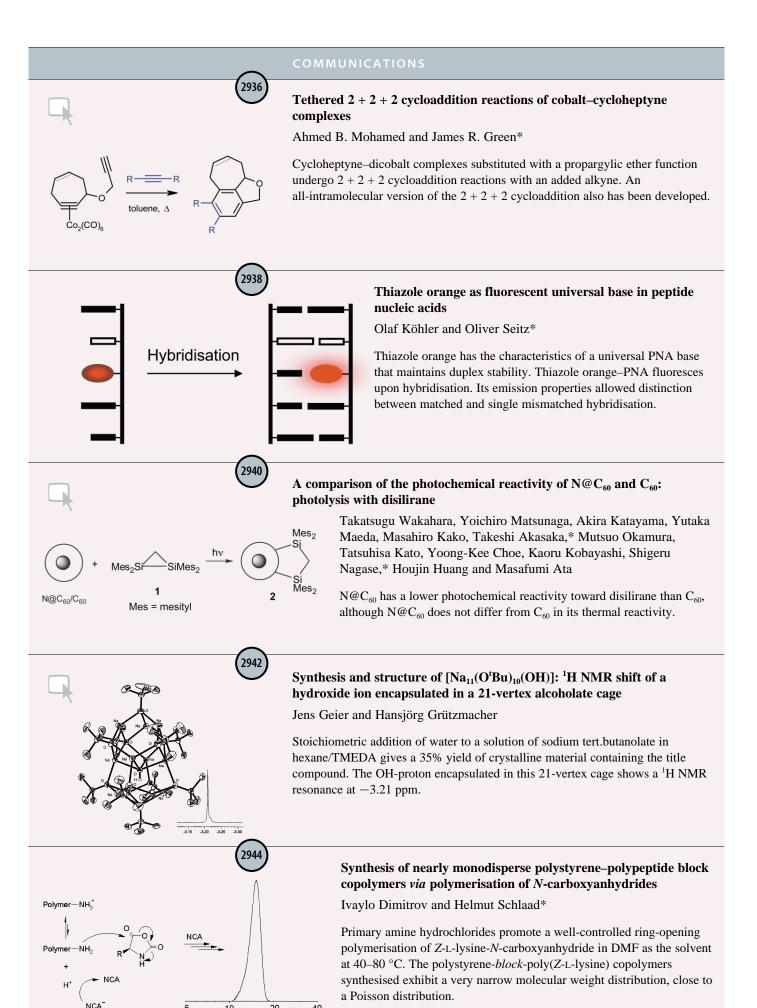
A novel class of enantiopure chiral ionic liquids based on amino alcohols is prepared in multi-gram scale. A preliminary example of chiral discrimination with racemic Mosher's acid salt is reported.

Chiral Ionic Liquids

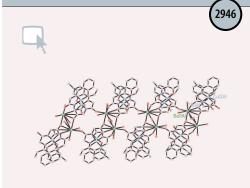
R= $n-C_4H_9$, $n-C_{12}H_{25}$ X = I, PF₆, BF₄, NTf₂







5 10 20 40 molecular weight, M [kg/mol]



2948

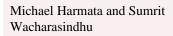
2948

A novel molecular ladder structure of $Cu({\rm II})-Ba({\rm II})$ coordination polymer exhibiting ferromagnetic coupling

Yang Zou, Wenlong Liu, Song Gao, Jingli Xie and Qingjin Meng*

A novel one-dimensional ladder-like Cu–Ba compound $\{[Ba(H_2O)_3(CuL)_2] \cdot 2H_2O\}_n (H_3L = Glycylglycine,$ N-[1-(2-hydroxyphenyl)propylidene]), has been synthesized; it exhibits ferromagnetic interaction.

ADDITIONS AND CORRECTIONS



Jeffrey M. Pietryga, Jamie N. Jones, Lucille A. Mullins, Robert J. Wiacek and Alan H. Cowley Substitution of a bridgehead bromide by primary organolithium reagents

An unprecedented mode of ligation for a bridged amidocyclopentadienide (constrained geometry) ligand; π -olefinic interactions with gallium and indium

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xii

AUTHOR INDEX

Abdou, Hanan E., 2882 Abe, Ryu, 2908 Abe, Yoshimoto, 2908 Abrunhosa, Isabelle, 2914 Aburaya, Kazuaki, 2872 Akasaka, Takeshi, 2940 Albrecht, Markus, 2854 Amii, Hideki, 2902 Arakawa, Hironori, 2908 Ata, Masafumi, 2940 Bai, Chun-Li, 2874 Baker, Gary A., 2932 Baker, Sheila N., 2932 Berl, Volker, 2868 Boiocchi, Massimo, 2906 Chen, Chia-Chun, 2920 Chen, Gee-Fong, 2920 Chen, Grace Y. J., 2870 Chen, Jing Rong, 2900 Chen, Yi-Chen, 2920 Chiaroni, Angèle, 2896 Choe, Yoong-Kee, 2940 Clark, Aurora E., 2876 Clerx, Joost, 2856 Colucci, Guido, 2906 Cowley, Alan H., 2948 Dai, Bing, 2874 Davidson, Ernest R., 2876 De Paolis, Michaël, 2896 Delacroix, Olivier, 2928 Dimitrov, Ivaylo, 2944 Djedovic, Natasha, 2862 Dötz, Karl Heinz, 2866 Duan, Wei-Liang, 2916 Dubant, Guillaume, 2914 Dubberley, Stuart R., 2880 Durrant, James R., 2878 Fackler, Jr., John P., 2882 Ferdani, Riccardo, 2862 Fitremann, Juliette, 2860 Frankin, Anthony M., 2864 Friedrich, Holger B., 2922 Fröhlich, Roland, 2854 Gao, Song, 2946 Gaumont, Annie-Claude, 2914, 2928 Geier, Jens, 2942 George, Vinod, 2886 Gokel, George W., 2847, 2862 Goodby, John W., 2860 Goto, Masahiro, 2926 Govender, Mayashree, 2922

Green, James R., 2936 Grützmacher, Hansjörg, 2942 Gulea, Mihaela, 2914 Halfen, Jason A., 2894 Han, Mei-Juan, 2874 Haque, Saif A., 2878 Harder, Egan, 2862 Harmata, Michael, 2948 Hartwig, John F., 2924 Harvey, John D., 2890 Haswell, Stephen J., 2886 Holmes, Andrew B., 2878 Hoogboom, Johan, 2856 Horton, Peter N., 2864 Huang, Houjin, 2940 Hursthouse, Michael B., 2864 Ichihara, Yutaka, 2902 Irwin, Michael D., 2882 Ishiyama, Tatsuo, 2924 Jahr, Holger C., 2866 Janser, Ingo, 2854 Jérôme, Robert, 2904 Jones, Jamie N., 2948 Jones, Peter G., 2892 Kai, Masaaki, 2888 Kako, Masahiro, 2940 Kamiya, Noriho, 2926 Katayama, Akira, 2940 Kato, Kazuaki, 2872 Kato, Tatsuhisa, 2940 Khan, Arif Ali, 2892 Kim, Byeang Hyean, 2912 Kim, Hasuck, 2898 Kitagawa, Susumu, 2918 Kobayashi, Kaoru, 2940 Kobayashi, Takeshi, 2902 Köhler, Olaf, 2938 Kolomiets, Elena, 2868 Kouwer, Paul H. J., 2860 Kozak, Christopher M., 2880 Kozake, Katsuyuki, 2918 Kwong, Kwan Wai, 2910 Kyritsakas, Nathalie, 2868 Lau, Choiwan, 2888 Lawrence, Sally C., 2880 Lee, Yoon Suk, 2912 Lehn, Jean-Marie, 2868 Levillain, Jocelyne, 2914 Lewis, Jared D., 2858 Li, Quan, 2910 Li, Yitong, 2884 Licchelli, Maurizio, 2906

Lin, Chun-Cheng, 2920 Liu, Wenlong, 2946 Lu, Jianzhong, 2888 McCleskey, T. Mark, 2932 McGinley, Chris M., 2843 Mackenzie, Grahame, 2860 McLaughlin, Larry W., 2934 Maeda, Yutaka, 2940 Makhoba, Xolani, 2922 Manzoni, Leonardo, 2930 Maruyama, Tatsuo, 2926 Matsunaga, Yoichiro, 2940 Matthews, Craig J., 2864 Meng, Qingjin, 2946 Meyer, Sebastian, 2854 Mimeau, David, 2928 Miyake, Yasuhito, 2872 Miyako, Eijiro, 2926 Miyata, Mikiji, 2872 Miyaura, Norio, 2924 Mizutani, Tadashi, 2918 Mohamed, Ahmed A., 2882 Mohamed, Ahmed B., 2936 Molinier, Valérie, 2860 Monzani, Enrico, 2906 Moore, John N., 2858 Mountford, Philip, 2880 Mullins, Lucille A., 2948 Nagase, Shigeru, 2940 Nakagawa, Takashi, 2902 Ngcobo, T. Dennis, 2922 Nieger, Martin, 2866 Nobuta, Yusuke, 2924 Nolte, Roeland J. M., 2856 Nomura, Atsushi, 2908 Odriozola, Ibon, 2868 Okamura, Mutsuo, 2940 Onani, Martin O., 2922 Onions, Stuart T., 2864 Otten, Matthijs B. J., 2856 Pagnoulle, Christophe, 2904 Pajewska, Jolanta, 2862 Pajewski, Robert, 2862 Park, Sun Min, 2912 Park, Taiho, 2878 Petrov, Petar, 2904 Piao, Yuanzhe, 2898 Pietryga, Jeffrey M., 2948 Pombo-Villar, Esteban, 2886 Potter, Robert J., 2878 Queneau, Yves, 2860 Rasing, Theo, 2856

Rong, Guo-Bin, 2916 Rowan, Alan E., 2856 Sacchi, Donatella, 2906 Sada, Kazuki, 2872 Sayama, Kazuhiro, 2908 Schlaad, Helmut, 2944 Schlesinger, Paul H., 2862 Seitz, Oliver, 2938 Shi, Min, 2916 Srinivasan, Rajavel, 2870 Stadler, Adrian-Mihail, 2868 Stassin, Fabrice, 2904 Stewart, Kristen M., 2934 Streubel, Rainer, 2892 Tohnai, Norimitsu, 2872 Uneyama, Kenji, 2902 Uttamchandani, Mahesh, 2870 van der Donk, Wilfred A., 2843 Wacharsindhu, Sumrit, 2948 Wada, Kenji, 2918 Wakahara, Takatsugu, 2940 Wan, Li-Jun, 2874 Wang, Chen, 2874 Wang, Xue Song, 2900 Ward, Benjamin D., 2880 Watts, Paul, 2886 Weis, Patrick, 2854 Wiacek, Robert J., 2948 Wismach, Cathleen, 2892 Wu, Yi-Chun, 2920 Wu, Ling, 2910 Xia, Sheng Qin, 2900 Xie, Jingli, 2946 Xu, An-Wu, 2910 Xu, Qing-Min, 2874 Yang, Chan-Yi, 2920 Yang, Chi Ming, 2884 Yang, Jin-Long, 2874 Yao, Shao Q., 2870 Yeh, Yi-Chun, 2920 Yeo, Dawn S. Y., 2870 Young, Jr., Victor G., 2894 Yu, Jimmy C., 2910 Zaleski, Jeffrey M., 2876 Zhang, Bao Wen, 2900 Zhang, Lizhi, 2910 Zhou, Jia Hong, 2900 Zhu, Jieping, 2896 Zhu, Qing, 2870 Ziegler, Christopher J., 2890 Zou, Yang, 2946 Zou, Zhigang, 2908

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