



The following Communications have been judged by at least two referees to be "very important papers" and will be published online at www.angewandte.org soon:

P. Mukhopadhyay, G. Zuber, P. Wipf, D. N. Beratan*

Contribution of a Chiral Solvent Imprint of a Solute to Optical Rotation

J. Fölling, V. Belov, R. Kunetsky, R. Medda, A. Schönle, A. Egner, C. Eggeling, M. Bossi*, S. Hell*

Photochromic Rhodamines Provide Fluorescence Nanoscopy with Optical Sectioning

O. Vendrell, F. Gatti, H.-D. Meyer*

Dynamics and Infrared Spectroscopy of the Protonated Water Dimer

J. L. Stymiest, G. Dutheuil, A. Mahmood, V. K. Aggarwal* Lithiated Carbamates: Chiral Carbenoids for Iterative Homologation of Boranes and Boronic Esters

M. Stępień, L. Latos-Grażyński,* N. Sprutta, P. Chwalisz, L. Szterenberg

Expanded Porphyrin With a Split Personality: A Hückel-Möbius Aromaticity Switch

Z. Su, Y. Xu*

Hydration of a Chiral Molecule: The Gas-Phase Study of the Propylene Oxide-(Water)₂ Ternary Cluster

News

Oxford Honorary Doctorates for Lerner and Rao ______ 5468 Gay-Lussac Award for Möhwald ______ 5468

Books

Scanning Probe Microscopies Beyond Imaging

The Potential Distribution Theorem and Models of Molecular Solutions

Paolo Samori

Thomas L. Beck, Michael E. Paulaitis, Lawrence R. Pratt

reviewed by K.-H. Ernst ______ **5469**

reviewed by R. Ludwig _____ 5470

Highlights



It's logical! Molecular logic gates and circuits process chemical or physical inputs according to programmed Boolean logic functions. The integration of func-

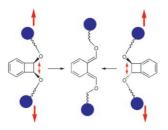
tions within individual molecules allows complex operations, as demonstrated by a recently reported molecular keypad access device (see picture).

Molecular Logic

A. Credi* ______ 5472 - 5475

Molecules That Make Decisions

Sound bubbles: Their collapse induces mechanical stress that can be transmitted to a target single bond by means of mechanosensitive polymers attached to the two sides of a benzocyclobutene. As surprising as it may be, ultrasound guides molecules into forbidden pathways by promoting the formation of only one isomer regardless of the starting benzocyclobutene.



Ultrasound

G. Cravotto,* P. Cintas* ___ 5476 - 5478

Forcing and Controlling Chemical Reactions with Ultrasound

Essays

Gold Nanoparticles

P. P. Edwards,*
J. M. Thomas* ______ **5480 – 5486**

Gold in a Metallic Divided State—From Faraday to Present-Day Nanoscience



"Very minute in their dimensions" is how Faraday described the metal particles present in a fine dispersion of colloidal gold upon observing its interaction with red light 150 years ago (see picture for a laser-light version of his experiment). This observation would come to serve as the basis for the modern nanoscience and nanotechnology of gold, including the use of gold nanoparticles in catalytic processes and the formation of self-assembled monolayers.

Reviews

Natural Product Synthesis

A. Steven, L. E. Overman* _ 5488 - 5508

Total Synthesis of Complex Cyclotryptamine Alkaloids: Stereocontrolled Construction of Quaternary Carbon Stereocenters

Filling the void: Efficient and flexible syntheses of many complex cyclotryptamine alkaloids are now possible because of the development of a set of stereocontrolled methods for accessing their multi-

ple quaternary carbon stereocenters. The key steps include a cascade of Heck reactions or asymmetric dialkylation followed by an asymmetric Heck reaction (see scheme).

Communications

Coordination Polymers

S. Burazerovic, J. Gradinaru, J. Pierron, T. R. Ward* ______ 5510 – 5514



Hierarchical Self-Assembly of One-Dimensional Streptavidin Bundles as a Collagen Mimetic for the Biomineralization of Calcite



Bundle up: The introduction of streptavidin (as a linker) between two Fe^{II}(terpyridine—bis-biotin) connectors affords a one-dimensional metal—organic protein framework (MOPF). In the presence of calcium ions and CO_2 vapors, these MOPF aggregates form protein bundles that template the biomineralization of calcite.

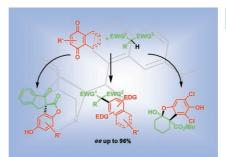
For the USA and Canada:

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electronic / print or electronic delivery); for individuals who are personal members of a national chemical society prices are available on request. Postage and handling charges included. All prices are subject to local VAT/ sales tax.



Quintessential quinones: The reaction of β -ketoesters with quinones provides a strategy to perform α -arylations, particularly when the α -aryl ring contains electron-donating groups. The reaction can be carried out enantioselectively by using cinchona alkaloids as organocatalysts and allows the synthesis of complicated polycyclic and spiro chiral compounds.



Organocatalysis

J. Alemán, B. Richter,
K. A. Jørgensen* _______ **5515 – 5519**

Organocatalytic Highly Enantioselective α -Arylation of β -Ketoesters



Quinone pro quo: The organocatalytic enantioselective α -arylation of aldehydes using quinones as the aromatic partner was carried out. The reaction proceeds well using H₂O or EtOH/H₂O mixtures as

solvent. The corresponding optically active α -arylated aldehydes are obtained in high yields and with excellent enantioselectivities (see scheme; TMS: trimethylsilyl).

Organocatalysis

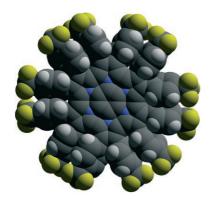
J. Alemán, S. Cabrera, E. Maerten,

J. Overgaard,

K. A. Jørgensen* _____ 5520 - 5523

Asymmetric Organocatalytic α -Arylation of Aldehydes





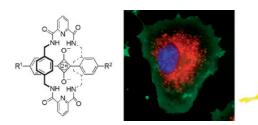
The heteroatom-stabilized annularly fused hexapyrrolohexaazacoronene shown (N blue, F green) was synthesized and isolated as a representation of a new class of nitrogen-containing molecules with extended $\boldsymbol{\pi}$ systems. The reversible redox behavior, a consequence of the interior N atoms, hints at potential applications in organic electronics.

Extended π Systems

M. Takase, V. Enkelmann, D. Sebastiani,M. Baumgarten, K. Müllen* 5524 – 5527

Annularly Fused Hexapyrrolohexaaza-coronenes: An Extended π System with Multiple Interior Nitrogen Atoms Displays Stable Oxidation States





It's hip to be square: Squaraine rotaxanes have very similar photophysical properties to the commonly used Cy-5 fluorophore, but are substantially more photostable and resist self-quenching upon aggregation. Molecular probes containing squar-

aine rotaxanes (see structure) are shown to be versatile, high-performance NIR fluorescence stains for in vitro fluorescence imaging of cells (middle) and in vivo whole-body imaging of living mice (right).



•

J. R. Johnson, N. Fu, E. Arunkumar, W. M. Leevy, S. T. Gammon,

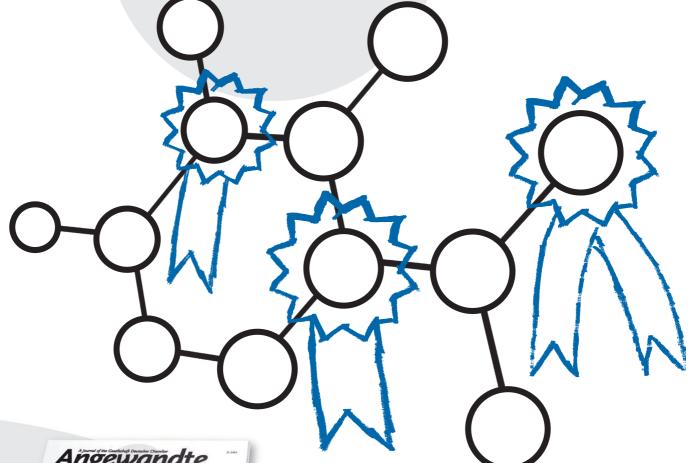
D. Piwnica-Worms,

B. D. Smith* _____ 5528 - 5531

Squaraine Rotaxanes: Superior Substitutes for Cy-5 in Molecular Probes for Near-Infrared Fluorescence Cell Imaging



Incredibly prestigious!





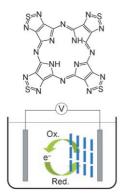
Angewandte Chemie is simply the best! With an Impact Factor of 10.232 (2006), Angewandte Chemie is considerably ahead of comparable journals. Such a high value is predominantly a reflection of the high quality of our Communications. The Reviews in Angewandte Chemie are unquestionably among the most important articles in their fields, however their contribution to the Impact Factor is much less significant than people tend to assert.





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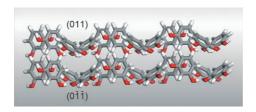
Reduced and reoxidized: Thin films (100 nm) of tetrakis (thiadiazole) porphyrazine (see picture) are highly ordered in an unusual orientation of the molecular planes owing to the strong self-assembling ability of these crystals. Electrochemical reduction of the thin films induces reversible electrochromism and n-type carrier doping.

Organic Thin Films

Y. Miyoshi, M. Kubo, T. Fujinawa, Y. Suzuki, H. Yoshikawa, K. Awaga* __ 5532-5536

Electrochromism and Stable n-Type Doping of Highly Oriented Thin Films of Tetrakis (thiadiazole) porphyrazine





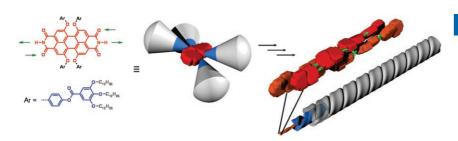
Differential growth: The growth of crystals of α -resorcinol (see picture; C gray, H white, O red) from the vapor phase is asymmetric along the polar axis. By means of molecular-dynamics simulations, the slower growth at the (011) polar surface is traced back to conformational change of the molecule and to surface reconstruction, which may be a general phenomenon in polar crystals.

Molecular Dynamics

J. Anwar,* J. Chatchawalsaisin,

J. Kendrick ______ 5537 - 5540

Asymmetric Crystal Growth of α -Resorcinol from the Vapor Phase: Surface Reconstruction and Conformational Change Are the Culprits



Self-Assembly Processes

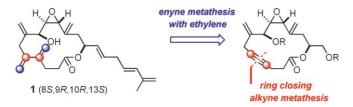
T. E. Kaiser, H. Wang, V. Stepanenko, F. Würthner* _____ 5541 - 5544

Supramolecular Construction of Fluorescent J-Aggregates Based on Hydrogen-Bonded Perylene Dyes



Luminous nanorods: The self-assembly of core-twisted perylene bisimide fluorophores (see structures) in nonpolar organic solvents is directed by hydrogen-

bonding interactions. This supermolecular concept resulted in one-dimensional J-aggregates with a fluorescence quantum yield of near unity.



The awesome power of metathesis is reflected in the synthesis of the proposed structure of the cytotoxic natural product amphidinolide V, as well as of all other stereomers containing a trans-epoxide unit. It can be concluded from the com-

prehensive data set obtained that the 8S,9R,10R,13S-configured compound 1 most likely represents amphidinolide V, even though a single resonance in the ¹H NMR spectrum deviates from the reported value.

Total Synthesis

A. Fürstner,* O. Larionov, S. Flügge __ 5545 - 5548

What is Amphidinolide V? Report on a Likely Conquest



5457

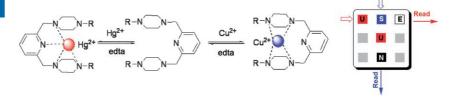
Contents

Molecular Devices

Z. Guo, W. Zhu,* L. Shen,
H. Tian* ______ 5549 - 5553



A Fluorophore Capable of Crossword Puzzles and Logic Memory



Puzzlingly logical: The characteristic fluorescence of Hg²⁺-selective OFF-ON and Cu²⁺-selective ON-OFF operations can be monitored and controlled reversibly by the sequence and ratio of Hg²⁺ and Cu²⁺

inputs. These inputs have been used to construct a molecular keyboard that is capable of crossword puzzles and logic memory (see picture).

Palladium Catalysis

Z. Shi,* B. Li, X. Wan, J. Cheng, Z. Fang, B. Cao, C. Qin, Y. Wang _____ **5554 – 5558**



Suzuki-Miyaura Coupling Reaction by Pd"-Catalyzed Aromatic C-H Bond Activation Directed by an *N*-Alkyl Acetamino Group

$$\begin{array}{c|c} & Pd, PhB(OH)_2 \\ \hline & Ph \\ \hline & CuX_2 \end{array}$$

$$\begin{array}{c|c} Pd^{\parallel} & Pd \\ \hline & PhB(OH)_2 \end{array}$$

$$R=bulky group$$

A seamless join: An efficient method to construct a C(sp²)—C(sp²) bond has been developed by using a Suzuki—Miyauratype coupling of *N*-alkyl acetanilides with boronic acids. The reaction was catalyzed by a Pd^{II} species and the C—H bond activation was directed by the acetamino group (see scheme). This reaction offers a halogen-free method to construct complicated structures.

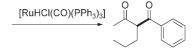
Homogeneous Catalysis

T. Fukuyama, T. Doi, S. Minamino, S. Omura, I. Ryu* _______ **5559 – 5561**



Ruthenium Hydride Catalyzed Regioselective Addition of Aldehydes to Enones To Give 1,3-Diketones

It all adds up: Straightforward access to 2alkyl-substituted 1,3-diketones is provided by a regioselective addition of aldehydes to enones catalyzed by the ruthenium hydride catalyst [RuHCl(CO)(PPh₃)₃] (see



scheme). The reaction involves a hydrometalation of the enone to form a metal enolate, a cross-aldol reaction to form an alkoxymetal species, and a subsequent β -metal hydride elimination.

Endohedral Fullerenes

Y. Iiduka, T. Wakahara, K. Nakajima,

T. Nakahodo, T. Tsuchiya, Y. Maeda,

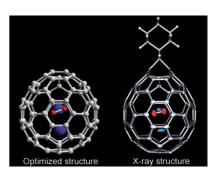
T. Akasaka,* K. Yoza, M. T. H. Liu,

N. Mizorogi, S. Nagase* ___ 5562-5564



Experimental and Theoretical Studies of the Scandium Carbide Endohedral Metallofullerene $Sc_2C_2@C_{82}$ and Its Carbene Derivative

It's what's on the inside that counts: The structure of $Sc_2C_2@C_{82}(III)$, as suggested by ^{13}C NMR spectroscopy and density functional calculations (see picture, left; C red and gray, Sc blue), contains two Sc and two C atoms inside the C_{82} cage. This mode of encapsulation is verified by X-ray single-crystal analysis of the cycloadduct of $Sc_2C_2@C_{82}(III)$ and adamantylidene carbene (see picture, right).



S express: Quaternary carbon atoms are constructed in excellent yields with high enantioselectivities by a highly efficient chiral Brønsted acid catalyzed Friedel—Crafts reaction of indoles and α -aryl enamides (see scheme). The presence of

H atoms on the N atoms of both the indole and enamide moieties is essential for the reaction to occur. The indole molecule attacks from the *Re* face to give S-configured products.

Asymmetric Catalysis

Y.-X. Jia, J. Zhong, S.-F. Zhu, C.-M. Zhang, O.-L. Zhou* ______ 5565 – 5567

Chiral Brønsted Acid Catalyzed Enantioselective Friedel–Crafts Reaction of Indoles and α -Aryl Enamides: Construction of Quaternary Carbon Atoms

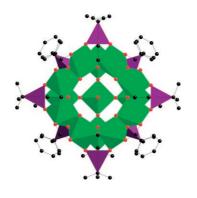


All in the family: Organophosphonate complexes of high-valent vanadium are common, but their V^{III} analogues are few and far between. Reaction of VCl₃ precursors and phosphonates under solvothermal conditions leads to a family of corresponding vanadium(III)-based phosphonates, including the layered

 $\{V^{III}_{12}(V^{IV}O)\}$ cluster shown in the picture

(V green, P purple, O red, C black). Preliminary magnetic studies are also repor-

ted.



Vanadium(III) Compounds

S. Khanra, M. Kloth, H. Mansaray, C. A. Muryn, F. Tuna, E. C. Sañudo, M. Helliwell, E. J. L. McInnes,*

R. E. P. Winpenny* ______ **5568 – 5571**

Synthesis of Molecular Vanadium(III) Phosphonates



Completing the quattuorvirate: Amino acids that contain primary amines directly catalyze *syn*-selective asymmetric aldol reactions between unprotected dihydroxyacetone and a variety of aromatic and

aliphatic aldehydes (see scheme). This new strategy provides the organocatalytic mimics of the L-rhamnulose 1-phosphate and D-fructose 1,6-diphosphate aldolases.

yield up to 92%

up to 15:1 d.r. up to 98% ee

Asymmetric Catalysis

S. S. V. Ramasastry, K. Albertshofer, N. Utsumi, F. Tanaka,

C. F. Barbas III* ______ 5572 - 5575

Mimicking Fructose and Rhamnulose Aldolases: Organocatalytic syn-Aldol Reactions with Unprotected Dihydroxyacetone



Isomigrastatin

Natural Product Synthesis

I. J. Krauss, M. Mandal,

S. J. Danishefsky* ______ **5576 – 5579**

Total Synthesis of (+)-Isomigrastatin



Marginally stable natural products: The asymmetric total synthesis of the hydrolytically and thermally labile natural product (+)-isomigrastatin was demonstrated. The thermodynamic instability of a

2*E*-configured double bond in the context of this 12-membered macrolide was further demonstrated by phosphine-catalyzed isomerization to the 2*Z* configuration.

ЮH

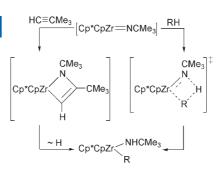
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C-H Activation

H. M. Hoyt, R. G. Bergman* 5580 - 5582



Kinetic Control and Multiple Mechanisms for C-H Bond Activation by a Zr=N Complex

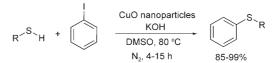


The [Cp*CpZr=NCMe₃(thf)] system provides the first direct measurement of kinetic selectivity in sp, sp², and sp³ C-H bond activation with Group 4 imido complexes. This feature allows the design of selectivity and mechanistic experiments to probe the 1,2-RH-addition event. Substrates reacting with the highest relative rates generally form the most thermodynamically stable products. $Cp*=\eta^5-C_5Me_5$, $Cp=\eta^5-C_5H_5$.

Cross-Coupling Reactions

L. Rout, T. K. Sen,

T. Punniyamurthy* _____ 5583 – 5586





Efficient CuO-Nanoparticle-Catalyzed C—S Cross-Coupling of Thiols with Iodobenzene

Cheap but good: Readily available CuO nanoparticles are not only less expensive than other catalysts used for the C-S cross-coupling of thiols with aryl halides, but they are also effective at a moderate

temperature and low concentration. The title reaction proceeds with a variety of alkyl and aryl thiols to give the corresponding sulfides in high yields (see scheme).



Cross-Coupling Reactions

J. Barluenga,* P. Moriel, C. Valdés,

F. Aznar _____ **5587 – 5590**



N-Tosylhydrazones as Reagents for Cross-Coupling Reactions: A Route to Polysubstituted Olefins Metal-free partner: No organometallic coupling partner is required for a Pd-catalyzed cross-coupling reaction that employs *N*-tosylhydrazones as the nucleophilic component (see scheme; Ts = 4-toluenesulfonyl).

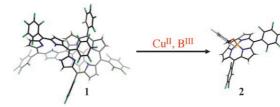
$$R^1$$
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Porphyrinoid Interconversion

S. Saito, K. S. Kim, Z. S. Yoon, D. Kim,*
A. Osuka* ______ 5591 – 5593



Extrusion of Boron (III) Subporphyrin from *meso*-Heptakis (pentafluorophenyl)-[32]heptaphyrin upon Cooperative Cu^{II} and B^{III} Metalation

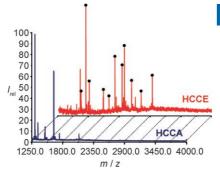


An uneven split: Cooperative Cu^{II} and B^{III} metalation of *meso*-heptakis (pentafluorophenyl)[32]heptaphyrin (1) triggers an extrusion reaction to produce B^{III} *meso*-tris (pentafluorophenyl)[14]subporphyrin

(2) along with a Cu^{II} porphyrin (3-Cu). Subporphyrin 2 exhibits unique optical properties that reflect the rotational restriction of its electron-withdrawing substituents.



Discrimination with a difference: The N-hydroxysuccinimide ester of HCCA (α-cyano-4-hydroxycinnamic acid) was used as a labeling reagent to increase the MALDI MS signal of weakly concentrated peptides of interest in a proteolytic mixture derived from cytochrome c relative to the signals of other peptides. The desired effect was only observed with the neutral MALDI matrix HCCE (the methyl ester of HCCA; see mass spectra).



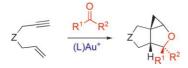
Mass Spectrometry of Proteins

D. Lascoux, D. Paramelle, G. Subra, M. Heymann, C. Geourjon, J. Martinez,*

E. Forest* __ _ 5594 - 5597



Discrimination and Selective Enhancement of Signals in the MALDI Mass Spectrum of a Protein by Combining a Matrix-Based Label for Lysine Residues with a Neutral Matrix



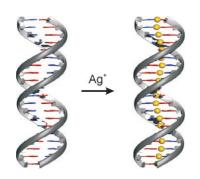
Gold rush: Gold catalysis remains a highly attractive field of research for the discovery of new reaction types. A novel intermolecular addition of aldehydes and ketones to enynes leads to the diastereoselective synthesis of 2-oxabicyclo-[3.1.0]hexanes (see scheme).

Oxabicyclohexanes

M. Schelwies, A. L. Dempwolff, F. Rominger, G. Helmchen* 5598 - 5601

Gold-Catalyzed Intermolecular Addition of Carbonyl Compounds to 1,6-Enynes

Silver service: Addition of silver(I) to an oligonucleotide comprising 1-deazaadenine and thymine nucleobases leads to the formation of a Hoogsteen-type double helix with specific binding of one metal ion per base pair (see scheme). Each base pair is mediated by one hydrogen bond and by two coordination bonds.

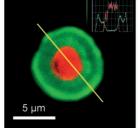


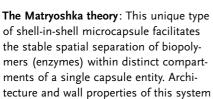
Artificial Base Pairs

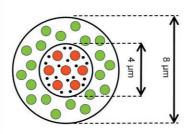
F.-A. Polonius, J. Müller* ___ **5602 - 5604**

An Artificial Base Pair, Mediated by Hydrogen Bonding and Metal-Ion Binding









allow for the concerted action of enzymes from separate capsule compartments by metabolite diffusion across a semipermeable, intersecting polyelectrolyte membrane.

Microencapsulation

O. Kreft,* M. Prevot, H. Möhwald, G. B. Sukhorukov _____ 5605 - 5608

Shell-in-Shell Microcapsules: A Novel Tool for Integrated, Spatially Confined **Enzymatic Reactions**



5461

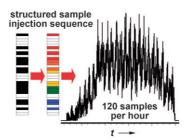
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Analytical Methods

O. Trapp* ______ 5609 - 5613



Boosting the Throughput of Separation Techniques by "Multiplexing"

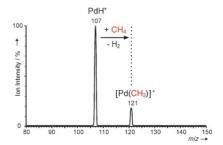


This is IT for chemical analysis: The use of structured sample injection sequences (bar codelets) in chromatography allows to increase the sample throughput by self-encoding of individual samples and mathematical deconvolution of the overlapping chromatograms (see picture). Analysis of up to 453 samples per hour could be achieved with a single separation column in gas chromatography.

Gas-Phase Reactions

M. Schlangen, H. Schwarz* 5614-5617

Thermal Activation of Methane by Group 10 Metal Hydrides MH+: The Same and Not the Same **Small electronic changes matter!** All three Group 10 metal hydrides MH+ (M = Ni, Pd, Pt) bring about thermal C-H bond activation of methane, but for each system the potential energy surfaces and thus the mechanisms of the ligand exchange MH+ + $CH_4 \rightarrow M(CH_3)^+$ + H_2 differ.



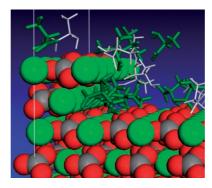


Biomineralization

S. E. Wolf, N. Loges, B. Mathiasch, M. Panthöfer, I. Mey, A. Janshoff, W. Tremel* _______ 5618 – 5623



Phase Selection of Calcium Carbonate through the Chirality of Adsorbed Amino Acids



On the phase of it: The phase selection of calcium carbonate (spheres: C gray, Ca green, O red) is determined by chiral amino acids (stick models) present during the crystallization. The interplay of composition and chirality of the crystal surfaces and additives leads to enantiospecific adsorption of the D and L amino acids on chiral surface steps. The resulting surface passivation creates a kinetic barrier, which controls the phase selection.

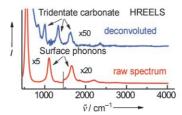
Surface Chemistry

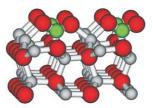
Y. Wang,* R. Kováčik, B. Meyer,* K. Kotsis, D. Stodt, V. Staemmler, H. Qiu, F. Traeger,

D. Langenberg, M. Muhler,

C. Wöll* _____ 5624-5627

CO₂ Activation by ZnO through the Formation of an Unusual Tridentate Surface Carbonate





Greenhouse gas "al dente": Exposure of the nonpolar ZnO ($10\overline{1}0$) surface to CO₂ at 95 K leads to the formation of an unusual tridentate carbonate species (see picture; C green, O red, Zn gray). Use of several

experimental techniques (for example, high-resolution electron energy loss spectroscopy (HREELS)) and theoretical calculations provides insight into the activation of ${\rm CO_2}$ on the surface.



Supporting information is available on the WWW (see article for access details).



A video clip is available as Supporting Information on the WWW (see article for access details).

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