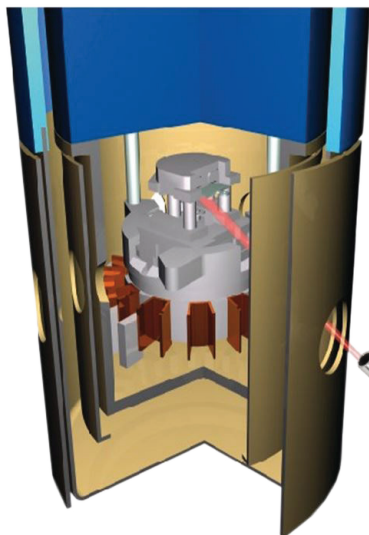


DEPOSITION OF DISCRETE ORGANIC MOLECULES WITH THE EFM 3

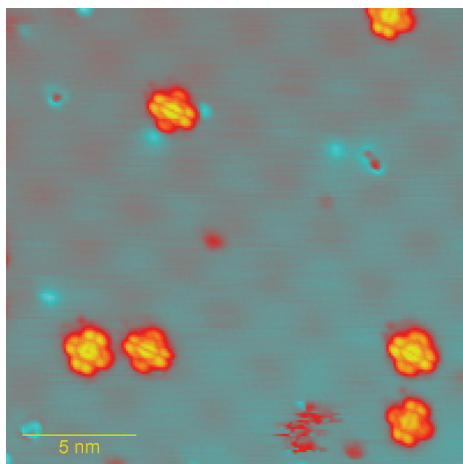


Experimental conditions

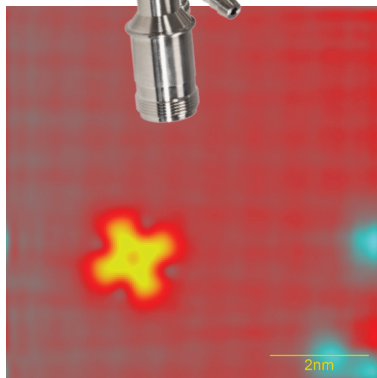
- in-situ evaporation of TOAT/CuPc into a LT-STM (Scienta Omicron)
- 185°C / 215°C crucible temperature on a cold (< 10 K) sample
- integrated flux regulation

Key-features:

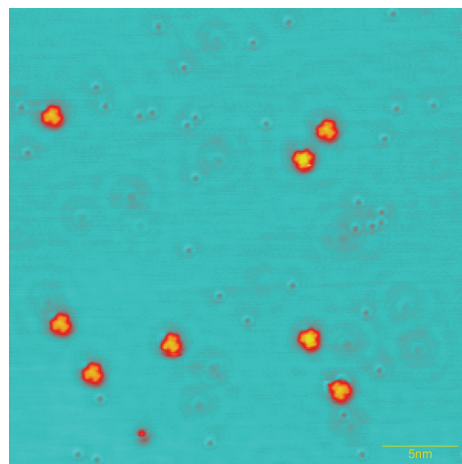
- precise temperature control via power regulation (< 150° C)
- ultra clean with proprietary cooling concept
- integrated flux regulation



a) STM image of CuPc molecules (Copperphthalocyanine) on NaCl/Cu (100) @ 5 K.
Imaging parameters: 1 V, 5 pA

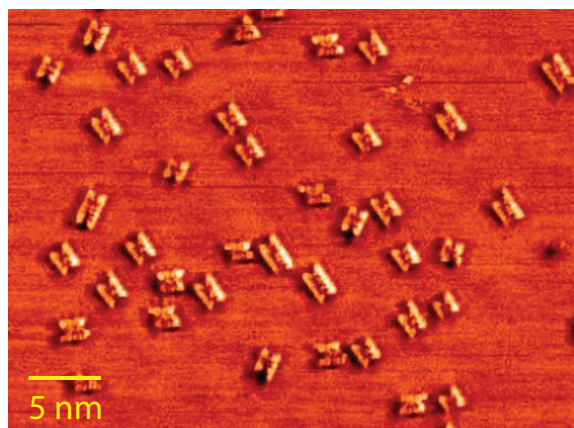
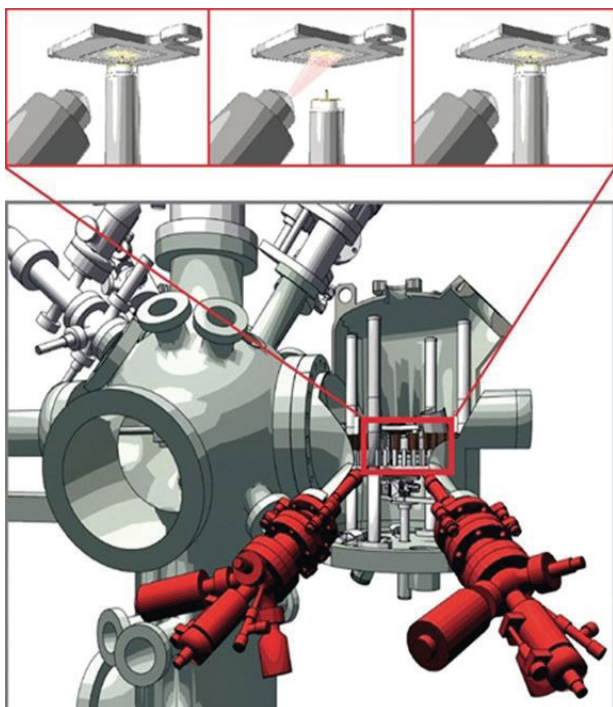


b) STM image of individual CuPc molecules on NaCl/Cu (100) @ 5 K with 4-fold symmetry. Imaging parameters: 0.1 V, 10 pA

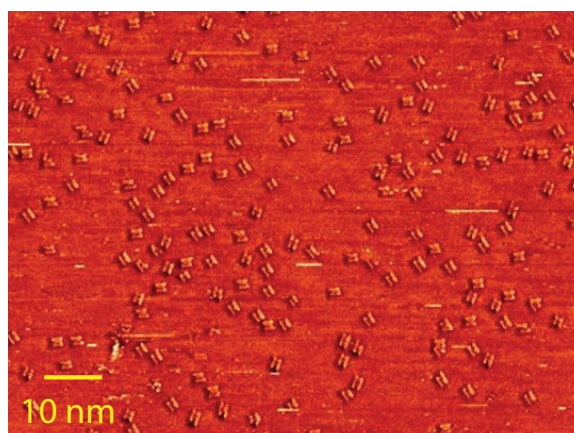


c) STM image of 1,5,9-trioxo-13-azatriangulene molecules (TOAT) on Cu (111) @ 5 K.
Imaging parameters: 1 V, 5 pA

Data acquired by the group of Prof. I. Swart, Debye Institute for Nanomaterials Science, Utrecht University, the Netherlands.



STM image of
Tetraphenylporphyrins on Cu(111) @ RT.
Imaging parameters: -1.27 V, 0.15 nA



STM image of
Tetraphenylporphyrins on Cu(111) @ RT.
Imaging parameters: -1.27 V, 0.15 nA

Experimental conditons

- In-Situ Evaporation of Tetraphenylporphyrins with EFM 3 into a VT-AFM (Scienta Omicron)
- EFM shutter open for 10 sec
- 350°C crucible temperature, sample @ RT
- integrated flux regulation

Data acquired by Dr. S. Molitor, Scienta Omicron GmbH, Taunusstein, Germany

CONTACTS

USA

SCIENTA OMICRON INC.
NORTH AMERICAN HEADQUARTERS
240 ST. PAUL STREET,
SUITE 301 DENVER,
CO 80206
UNITED STATES
PHONE: +1 720 350 5000
EMAIL: SALES-NA@SCIENTAOMICRON.COM

EUROPE

AND THE REST OF THE WORLD
(GENERAL CONTACT)

FOCUS GMBH
NEUKIRCHNER STR. 2
65510 HUENSTETTEN, GERMANY
PHONE: +49 (0) 6126 - 4014 - 31
FAX: +49 (0) 6126 - 4014 - 10
E-MAIL: SALES@FOCUS-GMBH.COM
WEB: WWW.FOCUS-GMBH.COM

JAPAN

SCIENTA OMICRON INC.
TOKYO
TONAMI OMORI BUILDING6-16-4 MINAMI-OI
SHINAGAWA-KU
TOKYO 140-0013JAPAN
PHONE: +81-3-6404-9133
FAX: +81-3-6404-9134
E-MAIL: SALES-JP@SCIENTAOMICRON.COM

CHINA

SCIENTAOMICRON- BEIJING SALES & SERVICE OFFICE
87 WEST 3RD RING NORTH ROADBEIJING,
RM. 707, BUILDING A, IFEC
100089 HAIDAN DISTRICT CHINA
PHONE: (86) 10-8882-4423
FAX: (86) 10-8882-4423-608
E-MAIL: SALES-CN@SCIENTAOMICRON.COM

KOREA

WOOSIN CRYOVAC CO., LTD.
RM601 DONGYOUNG-VENTURESTEL,
172 OJEON-DONG UIWANG-SI,
GYEONGGI-DO
KOREA
PHONE: +82 - 31 - 4575615
FAX: +82 - 31 - 4575629
EMAIL: WOOSIN@WOOSINENT.CO.KR
WEB: WWW.WOOSINENT.CO.KR

RUSSIA

OOO TERRALAB NTS
LENINSKIE GORY, 1 STR. 77
119992 MOSCOW
RUSSIA
PHONE: +7 495 939-1106
FAX: +7 495 939-1753
E-MAIL: INFO@TRLSYS.RU
WEB: WWW.TRLSYS.RU/ABOUT.SHTML

INDIA

MACK INTERNATIONAL
5/1A, GRANTS BUILDING,
ARTHUR BUNDER ROAD, COLABA,
MUMBAI 400 005, INDIA
PHONE: +91 22 22855261 / 22834962
FAX: +91 22 22852326
E-MAIL: SALES@MACK.IN
WEB: WWW.MACK.IN

FRANCE

AXESSTECH
750, CHEMIN DE BEAUPRÉ
13760 SAINT CANNAT
PHONE: +33 04 42 57 30 06
FAX: +33 04 42 50 68 46
E-MAIL: SALES@AXESSTECH.FR
WEB: WWW.AXESSTECH.FR

SINGAPORE

PORTSDOWN SCIENTIFIC PTE LTD
2 WHITCHURCH RD
SINGAPORE 138810
PHONE: +65 93821401
E-MAIL: PORTSDOWN.SCI@GMAIL.COM
WEB: WWW.PORTSDOWNSCI.COM.SG

