

### Antimicrobial activity of commercial photocatalytic SaniTise™ Window glass

Kisand, Vambola; Visnapuu, Meeri; **Rosenberg, Merilin**; Danilian, Dmytro; Vlassov, Sergei; Kook, Mati; Lange, Sven; Pärna, Rainer; Ivask, Angela Catalysts 2022 / art. 197 <https://doi.org/10.3390/catal12020197> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### Apatites based catalysts : a tentative classification

Gruselle, Michel; **Tõnsuaadu, Kaia**; Gredin, Patrick; Len, Christophe Molecular catalysis 2022 / art. 112146 <https://doi.org/10.1016/j.mcat.2022.112146> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### Application of agricultural waste as heterogeneous catalysts for biodiesel production

Khan, Haris Mahmood; Iqbal, Tanveer; Yasin, Saima; Ali, Chaudhry Haider; Abbas, Muhammad Mujtaba; Jamil, Muhammad Asif; **Hussain, Abrar**; Soudagar, Manzoore Elahi M.; Rahman, Muhammad Muhtur Catalysts 2021 / art. 1215, 17 p. : ill <https://doi.org/10.3390/catal11101215> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### Asymmetric aminocatalytic Michael addition of cyclopropane-containing aldehydes to nitroalkenes

Reitel, Kärt; Lippur, Kristin; Järving, Ivar; Kudrjašova, Marina; Lopp, Margus; Kanger, Tõnis Synthesis 2013 / p. 2679-2683 : ill <https://doi.org/10.1055/s-0033-1338704> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### Asymmetric cyclopropanation via an electro-organocatalytic cascade

Krech, Anastasiya; Laktsevich-Iskryk, Marharyta; Deil, Nora; Fokin, Mihhail; Kimm, Mariliis; Ošeka, Maksim Chemical communications 2024 / 14026-14029 <https://doi.org/10.1039/D4CC05092D> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### Asymmetric Kulinkovich hydroxycyclopropanation of alkenes mediated by titanium(IV) TADDOLate complexes

Iskryk, Marharyta; Barysevich, Maryia; Ošeka, Maksim; Adamson, Jasper; Kananovich, Dzmitry Synthesis 2019 / p. 1935-1948 : ill <https://doi.org/10.1055/s-0037-1611709> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### Asymmetric organocatalytic aza-Michael reactions of isatin derivatives

Žari, Sergei; Metsala, Andrus; Kudrjašova, Marina; Kaabel, Sandra; Järving, Ivar; Kanger, Tõnis Synthesis 2015 / p. 875-886 : ill <https://doi.org/10.1055/s-0034-1379956> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### Asymmetric organocatalytic cascade synthesis of tetrahydrofuran spirooxindoles

Trubitsõn, Dmitri; Žari, Sergei; Kaabel, Sandra; Kudrjašova, Marina; Kriis, Kadri; Järving, Ivar; Pehk, Tõnis; Kanger, Tõnis Synthesis 2018 / p. 314-322 : ill <https://doi.org/10.1055/s-0036-1590918> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### Asymmetric organocatalytic Michael addition–cyclisation cascade of cyclopentane-1,2-dione with alkylidene malononitriles

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### Asymmetric organocatalytic Michael Addition-cyclization cascade of cyclopentane-1,2-dione with substituted $\alpha,\beta$ -unsaturated aldehydes

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### Asymmetric synthesis of 2,3,4-trisubstituted piperidines

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### Aza-Michael reactions of isatin imines : deeper insight and origin of the stereoselectivity

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### Cellular, extracellular and extracellular vesicular miRNA profiles of pre-ovulatory follicles indicate signaling disturbances in polycystic ovaries

Rooda, Ilmatar; Hasan, Mohammed Mehedi; Roos, Kristine; Viil, Janeli; Smolander, Olli-Pekka; Velthut-Meikas, Agne International journal of molecular sciences 2020 / art. 9550, 23 p. : ill <https://doi.org/10.3390/ijms21249550> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### Cobalt-containing nitrogen-doped carbon aerogels as efficient electrocatalysts for the oxygen reduction reaction

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**De novo 3D structure determination from sub-milligram protein samples by solid-state 100 kHz MAS NMR spectroscopy**  
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**Degradation of antibiotic vancomycin by UV photolysis and pulsed corona discharge combined with extrinsic oxidants**  
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**Dehydration of AlPO<sub>4</sub>-34 studied by variable-temperature NMR, XRD and first-principles calculations**  
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**Diastereoselective [2,3]-sigmatropic rearrangement of N-allyl ammonium ylides**  
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**Differential susceptibility of catheter biomaterials to biofilm-associated infections and their remedy by drug-encapsulated eudragit RL100 nanoparticles**  
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**Dynamic chiral cyclohexanohemicucurbit[12]uril**  
**Mishra, Kamini Atindrakumar**; **Adamson, Jasper**; **Öeren, Mario**; **Kaabel, Sandra**; **Fomitšenko, Maria**; **Aav, Riina** Chemical communications 2020 / p. 14645–14648 <https://doi.org/10.1039/D0CC06817A> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

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**Electrochemical characterisation of Co@Co(OH)<sub>2</sub> core-shell nanoparticles and their aggregation in solution**  
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**Electroreduction of oxygen on carbide-derived carbon supported Pd catalysts**  
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**Electrospun carbon nanofibre-based catalysts prepared with Co and Fe phthalocyanine for oxygen reduction in acidic medium**  
Muuli, Kaur; Mooste, Marek; Akula, Srinu; **Gudkova, Viktoria**; Otsus, Markus; Kikas, Arvo; Aruväli, Jaan; Treshchalov, Alexey; Kisand, Vambola; **Krumme, Andres** ChemElectroChem 2023 / art. e202300131, 12 p. : ill <https://doi.org/10.1002/celec.202300131>  
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**Electrospun polyacrylonitrile-derived Co and Fe containing nanofibre catalysts for oxygen reduction reaction at the alkaline membrane fuel cell cathode**  
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**Enantio-differentiating hydrogenation of alkyl 3-oxobutanoates over tartaric acid-modified Ni catalyst: Enthalpy-entropy**

#### **compensation effect as a tool for elucidating mechanistic features**

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#### **Enantioselective construction of acyclic quaternary carbon stereocenters : palladium-catalyzed decarboxylative allylic alkylation of fully substituted amide enolates**

**Starkov, Pavel**; Moore, Jared T.; Duquette, Douglas C.; Stoltz, Brian M.; Marek, Ilan Journal of the American Chemical Society 2017 / p. 9615-9620 : ill <https://doi.org/10.1021/jacs.7b04086> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **Enantioselective N-Alkylation of Nitroindoles under Phase-Transfer Catalysis**

**Trubitsin, Dmitri**; Martõnova, Jevgenija; Erkman, Kristin; Metsala, Andrus; Saame, Jaan; Köster, Kristjan; **Järving, Ivar**; Leito, Ivo; **Kanger, Tõnis** Synthesis 2020 / p. 1047-1059 <https://doi.org/10.1055/s-0039-1690751> [Journal metrics at Scopus](#) [Article at WOS](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **Enantioselective organocatalytic Michael addition of cyclopentane-1,2-diones to nitroolefins**

**Preegel, Gert**; Noole, Artur; Ilmarinen, Kaja; **Järving, Ivar**; **Kanger, Tõnis**; Pehk, Tõnis; Lopp, Margus Synthesis 2014 / p. 2595-2600 : ill <https://doi.org/10.1055/s-0034-1378374> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

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#### **Enhanced visible and ultraviolet light-induced gas-phase photocatalytic activity of TiO<sub>2</sub> thin films modified by increased amount of acetylacetone in precursor solution for spray pyrolysis**

**Spiridonova, Jekaterina**; Mere, Arvo; Krunk, Malle; Rosenberg, Merilin; Kahru, Anne; **Danilson, Mati**; **Kritševskaja, Marina**; **Oja Acik, Ilona** Catalysts 2020 / 21 p. : ill <https://doi.org/10.3390/catal10091011> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

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#### **Formation and trapping of the thermodynamically unfavoured inverted-hemicucurbit[6]uril**

**Prigorchenko, Elena**; Kaabel, Sandra; Narva, Triin; Baškir, Anastassia; Fomitšenko, Maria; Adamson, Jasper; **Järving, Ivar**; Rissanen, Kari; **Tamm, Toomas**; Aav, Riina Chemical communications 2019 / p. 9307–9310 : ill <https://doi.org/10.1039/C9CC04990H> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **Formation of [4Fe-4S] clusters in the mitochondrial iron–sulfur cluster assembly machinery**

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#### **Gas-phase photocatalytic oxidation of refractory VOCs mixtures : through the net of process limitations**

**Kritševskaja, Marina**; Preis, Sergei; Moiseev, Anna; **Pronina, Natalja**; Deubener, Joachim Catalysis today 2017 / p. 93-98 : ill <https://doi.org/10.1016/j.cattod.2016.03.041> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **Hydroxamic acids as PARP-1 inhibitors : molecular design and anticancer activity of novel phenanthridinones**

**Bondar, Denys**; **Bragina, Olga**; Lee, Ji Young; Semenyuta, Ivan; **Järving, Ivar**; Brovarets, Volodymyr; Wipf, Peter; Bahar, Ivet; **Karpichev, Yevgen** Helvetica chimica acta 2023 / art. e202300133, 26 p. : ill <https://doi.org/10.1002/hlca.202300133> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **Importance of molecular symmetry for enantiomeric excess recognition by NMR**

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#### **Importance of the micro-lattice structure of selective laser melting processed Mo/Mo(x)S(x+1) composite: Corrosion studies on the electrochemical performance in aqueous solutions**

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#### **Insight into the mechanism and stereochemistry of the transformations of alkyltitanium ate-complexes. An enhanced**

#### enantioselectivity in the cyclopropanation of the carboxylic esters with titanacyclopentane reagents

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#### Interaction of tannic acid with ferric iron to assist 2,4,6-trichlorophenol catalytic decomposition and reuse of ferric sludge as a source of iron catalyst in Fenton-based treatment

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#### Iron and cobalt phthalocyanine embedded electrospun carbon nanofiber-based catalysts for anion exchange membrane fuel cell cathode

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#### Kinetic resolution of epoxy alcohols with the Sharpless Ti-isopropoxide/tartaric ester complex

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#### Ligand-tailored divergence of copper-catalyzed aerobic oxidation of cyclopropanols. Application to the practical synthesis of $\beta$ -aminoketones and $\beta$ -enaminones

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#### Lipase-catalyzed stereoresolution of long-chain 1,2-alkanediols: a screening of preferable reaction conditions

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#### Mechanochemical birch reduction with low reactive alkaline earth metals

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#### Mechanochemistry-amended Barbier reaction as an expedient alternative to Grignard synthesis

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#### Metals in ALS TDP-43 pathology

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#### Non-invasive assessment of skin surface proteins of psoriasis vulgaris patients in response to biological therapy

**Orro, Kadri**; Salk, Kristiina; Merkulova, Anna; Abram, Kristi; Karelson, Maire; Traks, Tanel; Neuman, Toomas; Spee, Pieter; Kingo, Külli *International Journal of Molecular Sciences* 2023 / art. 16248 <https://doi.org/10.3390/ijms242216248> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### On the pH Dependency of the Catalysis by a Lytic Polysaccharide Monooxygenase from the Fungus *Trichoderma reesei*

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#### Oxidation of aqueous toluene by gas-phase pulsed corona discharge in air-water mixtures followed by photocatalytic exhaust air cleaning

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### **Oxygen reduction on catalysts prepared by pyrolysis of electrospun styrene- acrylonitrile copolymer and multi-walled carbon nanotube composite fibres**

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### **A phenotypic approach to probing cellular outcomes using heterobivalent constructs**

**Bhadoria, Rohit**; **Ping, Kefeng**; **Lohk, Christer**; **Järving, Ivar**; **Starkov, Pavel** Chemical Communications 2020 / p. 4216 - 4219 <https://doi.org/10.1039/c9cc09595k> <https://pubs.rsc.org/en/content/articlelanding/2020/cc/c9cc09595k> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Photocatalytic degradation of different VOCs in the gas-phase over TiO<sub>2</sub> thin gilms prepared by ultrasonic spray pyrolysis**

**Dundar, Ibrahim**; **Kritševskaja, Marina**; **Katerski, Atanas**; **Krunks, Malle**; **Oja Acik, Ilona** Catalysts 2019 / art. 915 ; 18 p. : ill <https://doi.org/10.3390/catal9110915> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **A photochemical organocatalytic strategy for the $\alpha$ -alkylation of ketones by using radicals**

Spinnato, Davide; Schweitzer-Chaput, Bertrand; Goti, Giulio; **Ošeka, Maksim**; Melchiorre, Paolo Angewandte Chemie international Edition 2020 / p. 9485 - 9490 <https://doi.org/10.1002/anie.201915814> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Photoredox-catalyzed direct C–H monofluoromethylation of heteroarenes**

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### **Plantago major and Plantago lanceolata Exhibit Antioxidant and Borrelia burgdorferi Inhibiting Activities**

**Laanet, Pille-Riin**; **Bragina, Olga**; **Jõul, Piia**; **Vaher, Merike** International journal of molecular sciences 2024 / art. 7112 <https://doi.org/10.3390/ijms25137112> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

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### **Propolis nanofibers : development and effect against SARS-CoV-2 virus and S. aureus, S. enterica bacteria**

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### **Quantifying graphitic edge exposure in graphene-based materials and its role in oxygen reduction reactions**

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### **A quantitative method for analysis of mixtures of homologues and stereoisomers of hemicucurbiturils that allows us to follow their formation and stability**

**Fomitšenko, Maria**; **Peterson, Anna**; Reile, Indrek; Cong, Hang; **Kaabel, Sandra**; **Prigorchenko, Elena**; **Järving, Ivar**; **Aav, Riina** New journal of chemistry 2017 / p. 2490-2497 : ill <https://doi.org/10.1039/C6NJ03050E> [Journal metics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Reduced state of iridium PCP pincer complexes in electrochemical CO<sub>2</sub> hydrogenation**

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### **Ring-opening coupling reaction of cyclopropanols with electrophilic alkenes enabled by decatungstate as photoredox catalyst**

**Krech, Anastasiya**; **Yakimchyk, Viktoryia**; **Jarg, Tatsiana**; **Kananovich, Dzmitry**; **Ošeka, Maksim** Advanced synthesis & catalysis 2024 / p. 91-100 <https://doi.org/10.1002/adsc.202300939> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Safeguarding female reproductive health against endocrine disrupting chemicals-The FREIA project**

**Duursen, Majorie B.M. van**; Boberg, Julie; Christiansen, Sofie; Jääger, Kersti; Salumets, Andres; **Velthut-Meikas, Agne** International journal of molecular sciences 2020 / art. 3215 <https://doi.org/10.3390/ijms21093215> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### Selective performance of sol–gel synthesised titanium dioxide photocatalysts in aqueous oxidation of various-type organic pollutants

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### Serum levels and removal by haemodialysis and haemodiafiltration of tryptophan-derived uremic toxins in ESKD patients

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### Shungite-derived graphene as a carbon support for bifunctional oxygen electrocatalysts

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### Simple access to $\beta$ -trifluoromethyl-substituted ketones via copper-catalyzed ring-opening trifluoromethylation of substituted cyclopropanols

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### Size-control by anion templating in mechanochemical synthesis of hemicucurbiturils in the solid state

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### Solid-state NMR of a protein in a precipitated complex with a full-length antibody

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### Sugars and sugar derivatives in ionic liquid media obtained from lignocellulosic biomass: Comparison of capillary electrophoresis and chromatographic analysis

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### Supramolecular chirogenesis in a sterically hindered porphyrin: a critical theoretical analysis

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### Supramolecular chirogenesis in zinc porphyrins by enantiopure hemicucurbit[n]urils (n = 6, 8)

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### Synthesis and characterisation of chiral triazole-based halogen-bond donors: halogen bonds in the solid state and in solution

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### Synthesis and characterization of cobalt and nitrogen co-doped peat-derived carbon catalysts for oxygen reduction in acidic media

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**Synthesis, in silico and in vitro evaluation of novel oxazolopyrimidines as promising anticancer agents**

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**Template synthesis of titanium dioxide coatings and determination of their photocatalytic activity by aqueous oxidation of humic acid**

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**Template-controlled synthesis of chiral cyclohexylhemicucurbit[8]uril**

Prigorchenko, Elena; Öeren, Mario; Kaabel, Sandra; Fomitšenko, Maria; Reile, Indrek; Järving, Ivar; Tamm, Toomas; Topic, Filip; Rissanen, Kari; Aav, Riina Chemical communications 2015 / p. 10921-10924 : ill <https://doi.org/10.1039/c5cc04101e> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**The role of initial oligomers in amyloid fibril formation by human stefin B**

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**Thermomyces lanuginosus lipase with closed lid catalyzes elimination of acetic acid from 11-acetyl-prostaglandin E2**

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**Thickness effect on photocatalytic activity of TiO<sub>2</sub> thin films fabricated by ultrasonic spray pyrolysis**

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**3-Chlorooxindoles : versatile starting materials for asymmetric organocatalytic synthesis of spirooxindoles**

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**Transition-metal- and nitrogen-doped carbide-derived carbon/carbon nanotube composites as cathode catalysts for anion-exchange membrane fuel cells**

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**Two-photon voltmeter for measuring a molecular electric field**

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