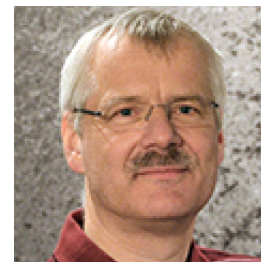


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## Publications

### **Essentiality of the Escherichia coli YgfZ Protein for the In Vivo Thiomethylation of Ribosomal Protein S12 by the RimO Enzyme**

Lund, T., Kulkova, M. Y., Jersie-Christensen, R. & Atlung, T., Mar 2023, In: International Journal of Molecular Sciences. 24, 5, 4728.

### **Kan man flyve uden klimaaftryk? - og til hvilken pris?**

Lund, T., 23 Feb 2021, In: Dansk Kemi.

### **Beregning af Jordens middeltemperaturstigning ved en fordobling af CO<sub>2</sub>-indholdet i atmosfæren**

Lund, T., Storr-Hansen, E., Christensen, V. V. E., Nilsson, C. H. U., Norén, D. V. & Empacher, S. H., Oct 2020, In: Kvant. 2020, 3, p. 21-26 6 p.

### **Isolation, Purification, and Antimicrobial Characterization of Cannabidiolic Acid and Cannabidiol from *Cannabis sativa* L.**

Martinenghi, L. D., Jønsson, R., Lund, T. & Jenssen, H., 12 Jun 2020, In: Biomolecules. 10, 6, 16 p., 900.

### **Kan vi stole på varedeklarationerne på cannabisprodukter?**

Andersen, E. H., Christensen, M. L., Empacher, S. H., Kamhieh, A. A. & Lund, T., Feb 2020, In: Dansk Kemi. 101, 1, p. 6-8 3 p.

### **Formation of surface defects by thermal shock method for the improved photocatalytic activity of ZnO nanoparticles**

Le, T. K., Nguyen, T. L., Hoang, C. N., Nguyen, D. K. A., Lund, T., Nguyen, H. K. H. & Huynh, T. K. X., 2 Jan 2020, In: Journal of Asian Ceramic Societies. 8, 1, p. 193-202 10 p.

### **Enhanced photocatalytic activity of ZnO nanoparticles by surface modification with KF using thermal shock method**

Le, T. K., Nguyen, T. M. T., Nguyen, H. T. P., Nguyen, T. K. L., Lund, T., Nguyen, H. K. H. & Huynh, T. K. X., Jan 2020, In: Arabian Journal of Chemistry. 13, 1, p. 1032-1039 8 p.

### **Characterization and photocatalytic activity of new photocatalysts based on Ag, F-modified ZnO nanoparticles prepared by thermal shock method**

Nguyen, H. T. P., Nguyen, T. M. T., Ngoc Hoang, C., Le, T. K., Lund, T., Nguyen, H. K. H. & Huynh, T. K. X., 2020, In: Arabian Journal of Chemistry. 13, 1, p. 1837-1847 10 p.

### **Direct experimental evidence for the adsorption of 4-*tert*-butylpyridine and 2,2'-bipyridine on TiO<sub>2</sub> surface and their influence on dye-sensitized solar cells' performance**

Phan, T. A. P., Nguyen, N. P., Nguyen, L. T., Nguyen, P. H., Lea, T. K., Huynhb, T. V. H., Lund, T., Tsai, D-H., Weid, T-C. & Nguyen, P. T., 2020, In: Applied Surface Science. 2020, 509, 9 p., 144878.

### **Impacts of copper-containing precursors on the photocatalytic activity of Cu-modified ZnO nanoparticles**

Nguyen, T. L., Le, T. K., Lund, T., Nguyen, H. K. H. & Huynh, T. K. X., 2020, In: International Journal of Nanotechnology. 17, 7-10, p. 514-528 15 p.

**Stability of the oxidized form of RuLL'(NCS)<sub>2</sub> dyes in acetonitrile in the presence of water and pyridines: Why the dye-sensitized solar cell electrolyte should be dry**

Lund, T., Hansen, P. E., Josephsen, J., Krake, J. & Mortensen, J., 1 Sept 2019, In: Solar Energy. 2019, 189, p. 235-243 9 p.

**Light-induced electrolyte improvement in cobalt tris(bipyridine)-mediated dye-sensitized solar cells**

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Dražević, E., Szabo, C., Konya, D., Lund, T., Wedege, K. & Benti, A., 17 Jun 2019, In: ACS Applied Energy Materials. 2, 7, p. 4745-4754 10 p.

**2,2'-Bipyridine – A new electrolyte additive in dye-sensitized solar cells**

Phuong, N. T., Phan, T. A. P., Ngo, N. H. T., Huynh, T. V. & Lund, T., 2018, In: Solid State Ionics. 314, p. 98-102 5 p.

**Modification of fluorine-doped tin oxide-electrodes by electrochemical reduction of di(4-nitrophenyl)iodonium tetrafluoroborate - And its application as a photo-anode in dye-sensitized solar cells**

Christiansen, C. D., Sørensen, L. A. & Lund, T., 2018, In: Journal of Electroanalytical Chemistry. 809, p. 44-51 8 p.

**Application of nitrogen-doped TiO<sub>2</sub> nano-tubes in dye-sensitized solar cells**

Tran, V. A., Thinh Troung, T., Pham Phan, T. A., Ngoc Nguyen, T., Huynh, T. V., Agresti, A., Pescetelli, S., Khoa Le, T., Di Carlo, A., Lund, T., Le, S-N. & Tuyet Nguyen, P., 2017, In: Applied Surface Science. 399, p. 515-522 8 p.

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Phuong, N. T., Xuan Thi Lam, B., Hansen, P. E., Lund, T. & Andersen, A. R., 2011, In: European Journal of Inorganic Chemistry. 2011, 16, p. 2533-2539 7 p.

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Kampmeier, J., Mansurul Hoque, AKM., D. Saeva, F., K. Wedergaertner, D., Thomsen, P., Ullah, S., Krake, J. & Lund, T., 2009, In: *Journal of the American Chemical Society*. 131, 29, p. 10015-10022 8 p.

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Nour-Mohammadi, F., Nguyen, T. H., Boschloo, G. & Lund, T., 2007, In: *Journal of Photochemistry and Photobiology, A: Chemistry*. 187, 2-3, p. 348-355 8 p.

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Drillet, G., Iversen, M. H., Sørensen, T. F., Ramløv, H., Lund, T. & Hansen, B. W., 2006, In: *Aquaculture*. 254, 1-4, p. 714-729

**Determination of the light-induced degradation rate of the solar cell sensitizer N719 on TiO<sub>2</sub> nanocrystalline particles**  
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**Oxidative coupling and polymerization of pyrroles: Part I. The electrochemical oxidation of 2,4-dimethyl-3-ethylpyrrole in acetonitrile**

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Styrishave, B., Rewitz, K., Lund, T. & Andersen, O., 2004, In: Marine Ecology - Progress Series. 274, p. 215-224 10 p.

**Direct determination of rate constants for coupling between aromatic radical anions and alkyl and benzyl radicals by laser-flash photolysis**

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**A comparative product investigation between Grignard reactions of benzophenone and coupling reactions of electrogenerated benzophenone radical anions and alkyl radicals in THF**

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**Complete inversion of configuration in aliphatic nucleophilic substitution reactions with small inner-sphere stabilization**

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**Electron transfer in some nucleophilic reactions**

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**Kinetic studies of the homogeneous coupling reaction between electrochemically generated aromatic radical anions and alkyl radicals**

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**Experimental determination of the reorganization energy of the NO<sub>2</sub><sup>+</sup>/NO<sub>2</sub> redox couple: comparison with theory**

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**Lipid biomarkers: linking the utilization of frontal plankton biomass to enhanced condition of juvenile North Sea cod**

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**Photoinduced alkylation of anthracene by butyltriphenylborate ion. a comparison between products from the photochemical and electrochemical butylation of anthracene**

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**On electron transfer in aliphatic nucleophilic substitution**

Lund, H., Daasbjerg, K., Lund, T. & Pedersen, S. U., 1995, In: Accounts of Chemical Research. 28, p. 313

**Does the reaction between fluorenone and grignard reagents involve free fluorenone anion radicals?**

Lund, T., Pedersen, M. L. & Frandsen, L. A., 1994, In: Tetrahedron Letters. 35, 49, p. 9225-9226

**Debromination of meso- and (+-)-1,2-dibromo-1,2-diphenylethane by 9-substituted fluorenone ions»c correlation between stereochemical results and redox potentials**

Lund, T., Bjørn, C., Hansen, H. S., Jensen, A. K. & Thorsen, T. K., 1993, In: ACTA chemica Scandinavica. 47, p. 877-884

**Electron transfer and regioselectivity in the alkylation of a hydrocarbon mono- and dianion**

Lund, T., 1992, In: Chemische Berichte. 125, p. 505-513

### **Correlation between inner-sphere stabilization and stereochemistry for the aliphatic nucleophilic substitution**

Lund, T., 1991, In: Tetrahedron Letters. 32, 12, p. 1595-1598

### **Homogeneous rate constants for coupling between electrochemically generated aromatic anion radicals and alkyl radicals**

Pedersen, S. U. & Lund, T., 1991, In: ACTA chemica Scandinavica. 45, p. 397-402

### **On the reaction between alkyl halides and dianions of aromatic compounds**

Lund, T. & Lund, H., 1991, In: ACTA chemica Scandinavica. 45, p. 655-658

### **On the stereoisomerization of radicals during aliphatic nucleophilic substitutions**

Daasbjerg, K., Lund, T. & Lund, H., 1989, In: Tetrahedron Letters. 30, 4, p. 493-496 4 p.

### **Rate of homogeneous electron-transfer in self-exchange reactions of methylviologen**

Fuhlendorff, R., Lund, T., Lund, H. & Pedersen, J. A., 1987, In: Tetrahedron Letters. 28, 44, p. 5335-5338 4 p.

### **Single electron-transfer as rate-determining step in an aliphatic nucleophilic substitution**

Lund, T. & Lund, H., 1986, In: Tetrahedron Letters. 27, 1, p. 95-98 4 p.

### **Relative signs of $^{13}\text{C}$ -X coupling constants from $^{13}\text{C}$ satellites in $^{13}\text{C}$ NMR spectra**

Jakobsen, H. J., Lund, T. & Sørensen, S., Feb 1979, In: Journal of Magnetic Resonance. 33, 2, p. 477-480 4 p.

### **$^{13}\text{C}$ - $\{^1\text{H}, ^{14}\text{N}\}$ triple-resonance experiments. A useful technique in $^{13}\text{C}$ NMR of nitrogen-containing molecules**

Jakobsen, H. J., Lund, T., Hansen, R. S. & Daugaard, P., Dec 1978, In: Journal of Magnetic Resonance. 32, 3, p. 459-462 4 p.

## **Projects**

### **Anthocyaninens fysiologiske roller i planters blade**

Nielsen, S. L. & Lund, T.

Forskningsrådet for Natur og Univers

01/01/2007 → 31/12/2009

### **DSC New ways to high efficiency Dye-sensitized Solar Cells**

Lund, T.

15/09/2013 → ...

### **En undersøgelse af nedbrydningskemi og stabilitet af en række kendte og nye Grätzel solcelle ruthenium farvestofkomponenter**

Lund, T.

Statens Teknisk Videnskabelige Forskningsråd

11/08/2010 → ...

## **Activities**

### **A contribution to reducing uncertainty in risk assessments of polluted sediments?**

Torben Lund (Speaker)

15 May 1999 → 29 May 1999

### **Analyse af produktblandinger fra elektrokemisk oxidation af substituerede pyrroler ved hjælp af HPLC-UV-MS**

Torben Lund (Speaker)

20 Aug 2002 → 21 Aug 2002

**Analyse af resveratrol og anthocyaniner i rødvin ved hjælp af LC-MS<sup>n</sup> - Kan druetypen bestemmes ud fra en simpel kemisk analyse?**

Torben Lund (Lecturer)  
27 Nov 2008

**Applied Organometallic Chemistry (Journal)**

Torben Lund (Editor)  
1 Aug 2019

**Dansk Elektrokemisk Forening (External organisation)**

Torben Lund (Member)  
1 Sept 2008 → ...

**Degradation chemistry of dye sensitized solar cell ruthenium dyes N719 and Z907 dyes**

Torben Lund (Lecturer)  
8 Jun 2009

**Degradation chemistry of dye sensitized solar cell ruthenium dyes N719 and Z907 dyes**

Torben Lund (Lecturer)  
19 Jun 2009

**Degradation chemistry of dye sensitized solar cell ruthenium dyes N719 and Z907 dyes**

Torben Lund (Lecturer)  
27 Aug 2009

**Degradation chemistry of RuLL'(NCS)<sub>2</sub> dyes in dye sensitized solar cells**

Torben Lund (Lecturer)  
21 Aug 2012 → 22 Aug 2012

**Degradation chemistry of RuLL'(NCS)<sub>2</sub> dyes in dye sensitized solar cells**

Torben Lund (Lecturer)  
21 Aug 2012

**Degradation chemistry of ruthenium dyes in dye sensitized solar cells**

Torben Lund (Lecturer)  
14 Jan 2010

**Degradation chemistry of ruthenium dyes in dye sensitized solar cells**

Torben Lund (Lecturer)  
1 Sept 2010

**Dye degradation chemistry and stability of Dye Sensitized Solar Cells**

Torben Lund (Lecturer)  
3 Oct 2008

**Dye stability and performances of Dye-sensitized solar cells with different nitrogen additives at elevated temperatures – Can sterically hindered pyridines prevent dye degradation?**

Torben Lund (Lecturer)  
23 May 2010 → 27 May 2010

**Dye stability and performances of Dye-sensitized solar cells with different nitrogen additives at elevated temperatures – Can sterically hindered pyridines prevent dye degradation?**

Torben Lund (Lecturer)  
29 Nov 2010



**En undersøgelse af den oxidative nedbrydning af solcellefarvestoffer cis-L-2Ru(NCS)-2 ved hjælp af LC-ESI-MS**

Torben Lund (Speaker)

20 Aug 2002 → 21 Aug 2002

**Farvestofnedbrydningskemi i Grätzel solcellen**

Torben Lund (Lecturer)

12 Feb 2010

**Farvestofsensibiliserede solceller - en ny spændende type solcelle**

Torben Lund (Lecturer)

3 Mar 2010

**Farvestofsensibiliserede solceller - en ny spændende type solcelle**

Torben Lund (Lecturer)

7 Dec 2009

**Identification of anthocyanin pigments in amphibious plants**

Torben Lund (Speaker)

2005

**Identifikation af glucuronsyre konjugeret hydroxy-PAH i en marin havbørsteorm ved hjælp af APCI LC/MS**

Torben Lund (Speaker)

20 Aug 2002 → 21 Aug 2002

**Kinetic studies of the homogeneous coupling reaction between electrochemically generated aromatic radical anions and alkyl radicals**

Torben Lund (Speaker)

5 Aug 1998 → 8 Aug 1998

**Kinetic studies of the homogeneous coupling reaction between electrochemically generated aromatic radical anions and alkyl radicals**

Torben Lund (Speaker)

21 Oct 1998 → 23 Oct 1998

**LC/MS detection of amino acids with zero-voltage electrospray**

Torben Lund (Lecturer)

24 Sept 2009

**LC/MS detection of amino acids with zero-voltage electrospray,**

Torben Lund (Lecturer)

20 Aug 2008

**Ph.d. bedømmelsesudvalg (External organisation)**

Torben Lund (Member)

8 Jun 2009 → ...

**Ph.d. bedømmelsesudvalg (External organisation)**

Torben Lund (Member)

30 Nov 2010

**Ruthenium complexes. Water and Dye Sensitized Solar Cells.**

Torben Lund (Other), Poul Erik Hansen (Speaker), Jens Josephsen (Other), Jacob Krake (Other) & John Mortensen (Other)

3 Jun 2019 → 7 Jun 2019

**Stability of the oxidized form of RuLL'(NCS)2 dyes in acetonitrile in the presence of water and pyridines – Why the Dye-sensitized solar cell electrolyte should be dry.**

Torben Lund (Speaker)

14 Oct 2019

**Stability of the oxidized form of RuLL'(NCS)2 dyes in acetonitrile in the presence of water and pyridines – Why the Dye-sensitized solar cell electrolyte should be dry.**

Torben Lund (Speaker)

31 Oct 2019

**The role of N-additives in Dye sensitized solar cells**

Torben Lund (Lecturer)

12 Oct 2012

**The role of N-additives in Dye sensitized solar cells**

Torben Lund (Lecturer)

12 Oct 2012

**Uppsala University (External organisation)**

Torben Lund (Member)

21 Mar 2013

## **Press clippings**

**Energi. Kan Danmark få styr på solens stråler?**

Poul Erik Hansen & Torben Lund

17/02/2013

1 item of Media coverage

**Frelse fra himlen**

Torben Lund

08/03/2019

1 item of Media coverage

**Gør det selv-solceller**

Torben Lund

12/10/2012

1 item of Media coverage

**Intens jagt på fremtidens solcelle**

Torben Lund

02/06/2013

1 item of Media coverage

**Politisk slagsmål om milliarder til trafik**

Per Homann Jespersen & Torben Lund

11/12/2012

1 item of Media coverage

**Virksomhed får 9.000 kvadratmeter solceller på taget**

Torben Lund

02/03/2023

1 item of Media coverage