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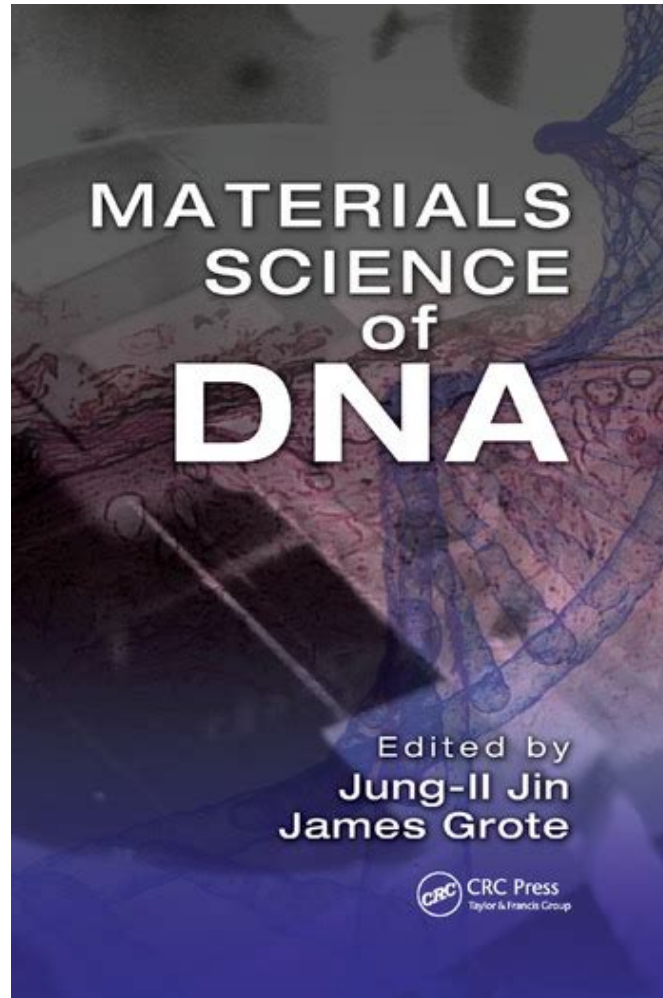


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6. Materials science of DNA edited by Jung

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7. DNA based nanofabrications

Yuanqin Zheng, Zhaoxiang Deng, James **Jin**, **Jung-II Grote**, Nanostructures and Nanomaterials via **DNA**-Based Self-Assembly, **Materials Science of DNA**, 10.1201/b11290, (13-48), (2011). Crossref Miho Tagawa, Koh-ichiroh Shohda, Kenzo Fujimoto, Akira Suyama, Stabilization of **DNA** nanostructures by photo-cross-linking, *Soft Matter*, 10.1039/c1sm06303k, 7 ...

8. Electrical Conductance in Biological Molecules

Institute for **Material Science** and Max Bergmann Center of Biomaterials Dresden University of Technology D-01062 Dresden (Germany) ... **Jung-II Jin**, James **Jin**, **Jung-II Grote**, Electrical and Magnetic Properties of **DNA**, **Materials Science of DNA**, 10.1201/b11290, (121-162), (2011).

9. PNA versus DNA Effects of Structural Fluctuations on

The effects of structural fluctuations on charge transfer in double-stranded DNA and peptide nucleic acid (PNA) are investigated. A palindromic sequence with two guanine bases that play the roles of hole donor and acceptor, separated by a bridge of two adenine bases, was analyzed using combined molecular dynamics (MD) and quantum-chemical methods. Surprisingly, electronic structure ...

10. Controlled Confinement of DNA at the Nanoscale

Nanopatterned arrays of biomolecules are a powerful tool to address fundamental issues in many areas of biology. DNA nanoarrays, in particular, are of interest in the study of DNA-protein interactions and for biodiagnostic investigations. In this context, achieving a highly specific nanoscale assembly of oligonucleotides at surfaces is critical.

11. A Route to Scale Up DNA Origami Using DNA Tiles as Folding

Yuanqin Zheng, Zhaoxiang Deng, James Jin, Jung-II Grote, Nanostructures and Nanomaterials via DNA-Based Self-Assembly, *Materials Science of DNA*, 10.1201/b11290, (13-48), (2011). Crossref

12. Scanning Tunneling Microscopy of DNA

We employ scanning tunneling microscopy (STM) to reveal the structure of DNA-carbon nanotube complexes with unprecedented spatial resolution and compare our experimental results to molecular dynamics simulations. STM images show strands of DNA wrapping around (6,5) nanotubes at $\approx 63^\circ$ angle with a coiling period of 3.3 nm, in agreement with the theoretical predictions. In addition, we ...

13. Affinity Capture and Detection of Immunoglobulin E in

Capture and detection of immunoglobulin E (IgE) in simple solution and in human serum using an aptamer-modified probe surface for affinity matrix-assisted laser desorption/ionization mass spectroscopy detection is reported. Detectable signals were obtained for 1 amol of IgE applied either in a single, 1- μ L application of 1 pM IgE or after 10 successive, 1- μ L applications of 100 fM IgE. In ...

14. A DNA Nanomachine Powered by Light Irradiation

Heiko Ihmels, Laura Thomas, James **Jin, Jung-II Grote**, Intercalation of Organic Ligands as a Tool to Modify the Properties of **DNA**, **Materials Science of DNA**, 10.1201/b11290, (49-76), (2011). Crossref Chikara Dohno, Hiroshi Atsumi, Kazuhiko Nakatani, Ligand inducible assembly of a **DNA** tetrahedron, **Chemical Communications**, 10.1039/c0cc05473a, 47 ...

15. DNA

Young-Wan Kwon, Dong Hoon Choi, **Jung-II Jin**, Chang Hoon Lee, Eui Kwan Koh, James G. **Grote**. Comparison of magnetic properties of **DNA** -cetyltrimethyl ammonium complex with those of natural **DNA**. **Science China Chemistry** 2012, 55 (5) , 814-821.

16. Free Engineering Books

Here is an unsorted list of online engineering books available for free download. There are books covering wide areas of electrical and electronic engineering, mechanical engineering, **materials science**, civil engineering, chemical and bioengineering, telecommunications, signal processing, etc.

17. Personal Information Science Publishing Group

(Front cover picture of the book was selected from this chapter). T. Premkumar and Kurt E. Geckeler **DNA** and Carbon-Based Nanomaterials: Preparation and Properties of Their Composites; In **Materials Science of DNA**, **Jung-II Jin** and James **Grote** (Eds.), CRC Press Taylor and Francis Group, Boca Raton, USA, 2011, Chapter 4, pp. 77-120.

18. Machine Learning Guide books

Yu Y, Hur T, **Jung J** and Jang I (2019) ... Lin F, Cho K, Song C, Xu W and **Jin Z** Brain Password Proceedings of the 16th Annual International Conference on Mobile Systems, Applications, and Services, (296-309) ... Part **II**, of the 5th International Conference on Intelligence **Science** and Big Data Engineering. Big Data and Machine Learning Techniques ...

19. OSA Uracil

Among five nucleobases, adenine (A), guanine (G), cytosine (C), thymine (T) and uracil (U), uracil is a key distinctive constituent existing only in ribonucleic acid (RNA). RNA shares the common A, G, and C with deoxyribonucleic acid (**DNA**) made of A-T, G-C hydrogen bonding. We explored a new attempt to

combine uracil (U) with **DNA**, successfully realizing U-doped **DNA** thin solid films for the ...

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21. OSA Irreversible denaturation of DNA a method to

The denaturation of double-stranded deoxyribonucleic acid (ds-**DNA**) has been well known to break nucleobase bonds, resulting in single-stranded deoxyribonucleic acid (ss-**DNA**) in solutions, which can recombine to form ds-**DNA** in a reversible manner. We developed an efficient process to irreversibly maintain various **DNA** denaturation levels in thin solid films in order to investigate the impacts of ...

22. Kinetics of the daunomycin

Studies on the interaction of altromycin B and its platinum(II) and palladium(II) metal complexes with calf thymus **DNA** and nucleotides. Journal of Inorganic Biochemistry 2003, 95 (2-3) , 177-193.

23. Covalent Assemblies of Metal Nanoparticles Strategies for

Jin R, Zeng C, Zhou M, Chen Y (2016) Atomically precise colloidal metal nanoclusters and nanoparticles: fundamentals and opportunities. Chem Rev 116:10346-10413 PubMed Google Scholar 3.

24. MicroRNA in Aging From Discovery to Biology Bentham Science

Title:MicroRNA in Aging: From Discovery to Biology VOLUME: 13 ISSUE: 7 Author(s):Hwa **Jin Jung** and Yousin Suh Affiliation:Albert Einstein College of Medicine, 1301 Morris Park Avenue, Price Center 475 Bronx, NY 10461, USA. Keywords:Aging, Longevity, Gene regulatory network, High-throughput sequencing, microRNAs, Target validation ...

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Materials Science of DNA: An Introduction Jung-Il Jin Nanostructures and Nanomaterials via **DNA**-Based Self-Assembly Yuanqin Zheng and Zhaoxiang Deng
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Preparation and Properties of Their Composites Thathan Premkumar and Kurt E. Geckeler Electrical and ...

26. OSA Cationic lipid binding control in DNA based

Author Affiliations. Woohyun **Jung**, 1 Hwiseok Jun, 2 Seongjin Hong, 1 Bjorn Paulson, 1 Yoon Sung Nam, 2 and Kyunghwan Oh 1, * 1 Photonic Device
Physics Laboratory, Institute of Physics and Applied Physics, Yonsei University, 50 Yonsei-ro, Seodaemun-gu, Seoul 03722, South Korea . 2 Laboratory for
Nanostructures Biointerfaces, Department of **Material Science** and Engineering, KAIST, 291 Daehak-ro ...

27. OSA Light amplification in DNA

Non-doped **DNA**-CTMA complex was synthesized by the method given in our preceding works using **DNA**-Na (Ogata **Material Science** Laboratory) and
CTMA chloride (Aldrich) [3-5,9,10]. Thin films of the complex were made on a glass substrate with a spin coating method (2,000 rpm, 15 sec.) from an ethanol
solution with concentration of 60 g/l. Thickness ...

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