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& American Physical Society)**

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Infrared and visible image registration using feature and area for image fusion  
Xiuqiong Zhang, Hongyin Qin, Mingrong Wang, and Jian Yang  
An image registration method is proposed in this paper for accurately aligning two images of the same scene captured simultaneously by visible CCD a...  
Proc. SPIE 8349, 83490E (2012)

Eye and mouth localization for various imaging conditions images  
M. Hanafi, M. Petrou, A. R. Ramli, and W. A. W. Adnan  
This paper presents an algorithm to detect the eyes and mouth of the faces under various imaging conditions such as with different poses, dimensions...  
Proc. SPIE 8349, 83490D (2012)

Research on projective distortion self-corrected photogrammetry  
Zemin Wang, Zhiyong Lei, Xiaona Ding, Junchai Gao, and Hanshan Li  
Aimed projective distortion caused by tilted camera in traditional photogrammetry, a projective distortion self-corrected photogrammetry is proposed...  
Proc. SPIE 8349, 83490C (2012)

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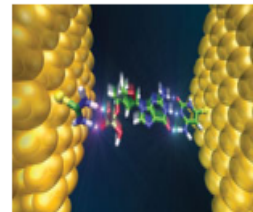
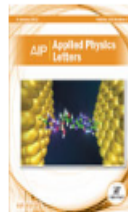
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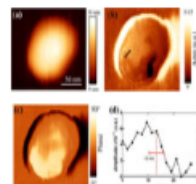
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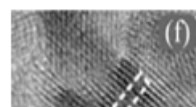


**Ferroelectric and electrical characterization of multiferroic BiFeO<sub>3</sub> at the single nanoparticle level**

R. K. Vasudevan, K. A. Bogle, A. Kumar, S. Jesse, R. Magaraglia, R. Stamps, S. B. Ogale, H. S. Potdar, and V. Nagarajan

Applying various spectroscopic and microscopic techniques, the authors examined the ferroelectric and electric properties of BiFeO<sub>3</sub> nanoparticles.

Appl. Phys. Lett. 99, 252905 (2011)



**Morphology-dependent low-frequency Raman scattering in ultrathin spherical, cubic, and cuboid SnO<sub>2</sub> nanocrystals**

L. Z. Liu, X. L. Wu, T. H. Li, S. J. Xiong, H. T. Chen, and Paul K. Chu

## Announcements

### Celebrating APL's 50th Anniversary!

The first year of *Applied Physics Letters* ran approximately 15 articles every two weeks. Since the first issue, published in September 1962, the Journal has evolved to meet the changing needs of the scientific community and to follow the trends of the applied physics field. In the last issue of 2011, a week's worth of *Applied Physics Letters* amounts to more than 180 articles across a broad range of topics, all highly-relevant and highly-cited.

Now, as APL enters its fiftieth year of serving the needs of physicists and scientists around the globe, we invite you to not only look back at the most highly cited papers from the past 50 years, but also to look forward to another 50 exciting years on the cutting edge of scientific discovery!

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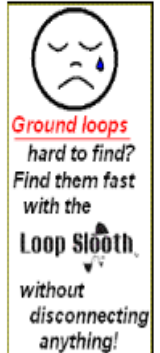
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Biswarup Pathak, Henrik Löffås, Jariyane Prasongkit, Anton Grigoriev, Rajeesh Ahuja, and Ralph H. Scheicher

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Effect of strain and barrier composition on the polarization of light emission from AlGaIn/AlN quantum wells

J. E. Northrup, C. L. Chua, Z. Yang, T. Wunderer, M. Kneissl, N. M. Johnson, and T. Kolbe

Appl. Phys. Lett. 100, 021101 (2012); doi:10.1063/1.3675451 (4 pages)

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Y. A. Xi and K. X. Chen

Future Chips Constellation, Department of Physics, Applied Physics, and Astronomy, Rensselaer Polytechnic Institute, Troy, New York 12180

1. Abstract : 해당 Article 초록 정보 제공

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### Kinetic study of Al-mole fraction in $\text{Al}_x\text{Ga}_{1-x}\text{N}$ grown on *c*-plane sapphire and AlN bulk substrates by metal-organic vapor-phase epitaxy

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E. F. Schubert(a)

Future Chips Constellation, Department of Physics, Applied Physics, and Astronomy, Department of Electrical, Computer, and Systems Engineering, Rensselaer Polytechnic Institute, Troy, New York 12180

W. Liu, X. Li, and J. A. Smart

Crystal IS, Inc., Green Island, New York 12183

(Received 2 December 2006; accepted 3 January 2007; published online 30 January 2007)

A systematic study is performed on the dependence of the Al-mole fraction in  $\text{Al}_x\text{Ga}_{1-x}\text{N}$  on the organometallic group-III precursor flow during metal-organic vapor-phase epitaxy. When keeping the total organometallic volume flow constant, a nonlinear concave bowing relationship is found between the Al-mole fraction (for  $0 \leq x \leq 1$ ) and the relative trimethylaluminum volume flow. A kinetic model, which takes into account the growth rate ratio between GaN and AlN ( $(g_{\text{Ga}}/g_{\text{Al}})$ ), is developed to explain such concave bowing relationship. The experimental data are in excellent agreement with the theoretical model. For  $\text{Al}_x\text{Ga}_{1-x}\text{N}$  grown on AlN bulk substrates, it is found that the Al-mole fraction is smaller and the growth rate ratio is larger than on sapphire substrates. The authors also investigate the incorporation of Al in  $\text{Al}_x\text{Ga}_{1-x}\text{N}$  as a function of the group-III precursor molar flow rate. A positive convex bowing relationship is found between Al-mole fraction and the relative trimethylaluminum molar flow, which is consistent with our model. © 2007 American Institute of Physics. [DOI: 10.1063/1.2437681]

$\text{Al}_x\text{Ga}_{1-x}\text{N}$  based ultraviolet (UV) light-emitting diodes (LEDs) have great potential for applications such as fluorescence-based biological agent detection, water purification, sterilization and decontamination, non-line-of-sight communications, and UV LEDs, the Al-performance device fraction in  $\text{Al}_x\text{Ga}_{1-x}\text{N}$  gas phase flow has the thermodynamic model proposed by Koukiti and Seki

grown at 865 °C and a reactor pressure of 50 mbars followed by a 0.3- $\mu\text{m}$ -thick high temperature (HT) AlN layer grown at 1230 °C and 25 mbars. The TMAI flow, ammonia flow, and molar V/III ratio of the LT and HT AlN layers are 1000, 100, and 10, respectively. The Al-mole fraction in the AlN layer is 0.15. The Al-mole fraction in the AlN layer is 0.15. The Al-mole fraction in the AlN layer is 0.15.

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T. Mart

Departemen Fisika, FMIPA, Universitas Indonesia, Depok 16424, Indonesia

We have investigated kaon photoproduction on a proton and a neutron near their production thresholds by utilizing an isobar model. The background term of the model is constructed from Feynman diagrams, while the resonance term is derived from the multipoles formalism. In the case of the  $\gamma + p \rightarrow K^+ + \Lambda$  channel we found that both pseudoscalar (PS) and pseudovector (PV) models are able to reproduce the available photoproduction data up to  $W = 50$  MeV above the threshold. The hyperon resonance  $S_{01}(1800)$  is found to be important in improving the agreement between model calculation and experimental data. In the case of double polarization observables  $O_{x'}$  and  $O_z$ , our result is in agreement with the finding of Sandorfi et al. In the  $\gamma + n \rightarrow K^0 + \Lambda$  channel we found that the difference between PS and PV models is sizable for future experiments. ©2010 American Institute of Physics

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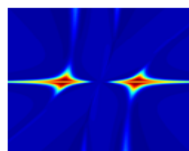
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A. B. Matsko, A. A. Savchenkov, V. S. Ilchenko, D. Seidel, and L. Maleki

We show that the average temperature of optical and mechanical modes of an optically transparent microresonator can be stabilized to a  $\text{pK}/\sqrt{\text{Hz}}$  level, a much lower value compared with the fundamental thermodynamic limit, without the need for an external temperature or frequency reference. The preprint is available at [arXiv:1102.0448](#).  
[*Phys. Rev. A* 83, 021801] Published Mon Feb 7, 2011

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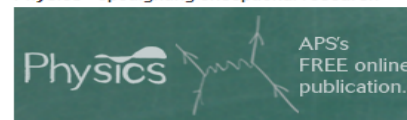
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G. Sinuco-León, B. Kaczmarek, P. Krüger, and T. M. Fromhold  
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Matter waves and collective properties of cold atoms and molecules

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E. Toth and P. B. Blakie  
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 P. Beiersdorfer, D. Layne, E. W. Magee, and J. I. Katz  
 Phys. Rev. Lett. **106**, 058301 (2011) – Published January 31, 2011  
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Attempts to achieve "top kill" of flowing oil wells by pumping dense drilling "muds," i.e., slurries of dense minerals, from above will fail if the Kelvin-Helmholtz instability in the gravity-driven counterflow produces turbulence that breaks up the denser fluid into small droplets. Here we estimate the droplet size to be submillimeter for fast flows and suggest the addition of a shear-thickening or viscoelastic polymer to suppress turbulence. We find in laboratory experiments a variety of new **physical** effects for a viscoelastic shear-thickening **liquid** in a gravity-driven counterstreaming flow. There is a progression from droplet formation to complete turbulence suppression at the relevant high velocities. Thick descending columns show a viscoelastic analogue of the viscous buckling instability. Thinner streams form structures resembling globules on a looping filament.

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- Positronium signature in organic **liquid** scintillators for neutrino experiments**  
 D. Franco, G. Consolati, and D. Trezzi  
 Phys. Rev. C **83**, 015504 (2011) – Published January 27, 2011  
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Electron antineutrinos are commonly detected in **liquid** scintillator. Coincidence between the reaction products: neutrons and positrons. Prior to positron annihilation, an electron-positron pair may form a few nanoseconds. Even if the o-Ps decay is speeded up by *spin-flip* or *pick-off* effects, it may introduce distortions in the photon emission time distribution, crucial for position reconstruction and pulse shape discrimination algorithms in antineutrino experiments. Reversing the problem, the o-Ps-induced time distortion represents a new signature for tagging antineutrinos in **liquid** scintillator. In this article, we report the results of measurements of the o-Ps formation probability and lifetime for the most used solvents for organic **liquid** scintillators in neutrino **physics** (pseudocumene, linear alkyl benzene, phenylxylylene, and dodecane). We characterize also a mixture of pseudocumene +1.5 g/l of 2,5-diphenyloxazole, a fluor acting as wavelength shifter. In the second part of the article, we demonstrate that the o-Ps-induced distortion of the scintillation photon emission time distributions represent an optimal signature for tagging positrons on an event by event basis, potentially enhancing the antineutrino detection.

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3. **Applications of a general random-walk theory for confined diffusion**  
 Elisa M. Calvo-Muñoz, Myvishi Esai Selvan, Ruichang Xiong, Madhusudan Ojha, David J. Keffer, Donald M. Nicholson, and Takeshi Egami  
 Phys. Rev. E **83**, 011120 (2011) – Published January 24, 2011  
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