

## LETTERS

### **Asymmetric diffusion as a key mechanism in Ni/Al energetic multilayer processing: A first principles study**

M. Petrantoni, A. Hemeryck, J. M. Duc  r  , A. Est  ve, C. Rossi, M. Djafari Rouhani, D. Est  ve and G. Landa

J. Vac. Sci. Technol. A **28**, L15 (2010); <http://dx.doi.org/10.1116/1.3491182>

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### **Application of contactless electroreflectance to study the epi readiness of m-plane GaN substrates obtained by ammonothermal method**

R. Kudrawiec, R. Kucharski, M. Rudziński, M. Zając, J. Misiewicz, W. Strupiński, R. Doradziński and R. Dwiliński

J. Vac. Sci. Technol. A **28**, L18 (2010); <http://dx.doi.org/10.1116/1.3504359>

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## EDITORIAL

### **EDITORIAL**

Gerry Lucovsky

J. Vac. Sci. Technol. A **28**, P1 (2010); <http://dx.doi.org/10.1116/1.3511690>

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## REVIEW ARTICLE

### **Adsorbate-enhanced transport of metals on metal surfaces: Oxygen and sulfur on coinage metals**

Patricia A. Thiel, Mingmin Shen, Da-Jiang Liu and James W. Evans

J. Vac. Sci. Technol. A **28**, 1285 (2010); <http://dx.doi.org/10.1116/1.3490017>

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## ARTICLES

### **Influence of deposition parameters on the microstructure and properties of nitrogen-doped diamondlike carbon films**

L. Sun, H. K. Li, G. Q. Lin and C. Dong

J. Vac. Sci. Technol. A **28**, 1299 (2010); <http://dx.doi.org/10.1116/1.3482010>

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### **Intrinsic p-type ZnO films fabricated by atmospheric pressure metal organic chemical vapor deposition**

Yen-Chin Huang, Zhen-Yu Li, Li-Wei Weng, Wu-Yih Uen, Shan-Ming Lan, Sen-Mao Liao, Tai-Yuan Lin, Yu-Hsiang Huang, Jian-Wen Chen and Tsun-Neng Yang

J. Vac. Sci. Technol. A **28**, 1307 (2010); <http://dx.doi.org/10.1116/1.3484138>





## ARTICLES

### **Structural and optical properties of yttrium oxide thin films for planar waveguiding applications**

Stuart J. Pearce, Greg J. Parker, Martin D. B. Charlton and James S. Wilkinson  
J. Vac. Sci. Technol. A **28**, 1388 (2010); <http://dx.doi.org/10.1116/1.3503621>

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### **Impact of the gas-surface scattering and gas molecule-molecule interaction on the mass flow rate of the rarefied gas through a short channel into a vacuum**

O. Sazhin  
J. Vac. Sci. Technol. A **28**, 1393 (2010); <http://dx.doi.org/10.1116/1.3504596>

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### **Study of the effect of plasma-striking atmosphere on Fe-oxidation in thermal dc arc-plasma processing**

I. Banerjee, Y. B. Kholam, S. K. Mahapatra, A. K. Das and S. V. Boraskar  
J. Vac. Sci. Technol. A **28**, 1399 (2010); <http://dx.doi.org/10.1116/1.3504597>

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### **Comparison of Ti-Zr-V nonevaporable getter films deposited using alloy or twisted wire sputter-targets**

R. Valizadeh, O. B. Malyshev, J. S. Colligon, A. Hannah and V. M. Vishnyakov  
J. Vac. Sci. Technol. A **28**, 1404 (2010); <http://dx.doi.org/10.1116/1.3504600>

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## SHOP NOTES

### **Novel method for cleaning a vacuum chamber from hydrocarbon contamination**

H. D. Wanzenboeck, P. Roediger, G. Hochleitner, E. Bertagnolli and W. Buehler  
J. Vac. Sci. Technol. A **28**, 1413 (2010); <http://dx.doi.org/10.1116/1.3484242>

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### **Microstructured optical fiber UHV integration for cold-atom experiments**

J.-F. Clément, T. Vitse and [P. Szriftgiser](#)  
J. Vac. Sci. Technol. A **28**, 1421 (2010); <http://dx.doi.org/10.1116/1.3497028>

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