

## LETTERS

### **Carbon monoxide-induced reduction and healing of graphene oxide**

Badri Narayanan, Stephen L. Weeks, Bhavin N. Jariwala, Bart Macco, Jan-Willem Weber, Somilkumar J. Rathi, Mauritius C. M. van de Sanden, Peter Sutter, Sumit Agarwal and Cristian V. Ciobanu

J. Vac. Sci. Technol. A **31**, 040601 (2013); <http://dx.doi.org/10.1116/1.4803839>

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### **Epitaxial $V_{0.6}W_{0.4}N/MgO(001)$ : Evidence for ordering on the cation sublattice**

H. Kindlund, J. Lu, J. Jensen, I. Petrov, J. E. Greene and L. Hultman

J. Vac. Sci. Technol. A **31**, 040602 (2013); <http://dx.doi.org/10.1116/1.4807654>

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## REVIEW ARTICLE

### **Fabrication of organic interfacial layers by molecular layer deposition: Present status and future opportunities**

Han Zhou and Stacey F. Bent

J. Vac. Sci. Technol. A **31**, 040801 (2013); <http://dx.doi.org/10.1116/1.4804609>

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## PLASMA SCIENCE AND TECHNOLOGY

### **Effect of bias application to plasma density in weakly magnetized inductively coupled plasma**

Hyuk Kim, Woohyun Lee, Wanjae Park and Ki-Woong Whang

J. Vac. Sci. Technol. A **31**, 041301 (2013); <http://dx.doi.org/10.1116/1.4804136>

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### **Roles of plasma-generated vacuum-ultraviolet photons and oxygen radicals in damaging nanoporous low- $k$ films**

Joe Lee and David B. Graves

J. Vac. Sci. Technol. A **31**, 041302 (2013); <http://dx.doi.org/10.1116/1.4807299>

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### **Effects of He and Ar ion kinetic energies in protection of organosilicate glass from $O_2$ plasma damage**

Joe Lee, Haseeb Kazi, Sneha Gaddam, Jeffrey A. Kelber and David B. Graves

J. Vac. Sci. Technol. A **31**, 041303 (2013); <http://dx.doi.org/10.1116/1.4809579>

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### **Stability and etching of titanium oxynitride films in hydrogen microwave plasma**

Hien Do, Tzu-Chun Yen and Li Chang

J. Vac. Sci. Technol. A **31**, 041304 (2013); <http://dx.doi.org/10.1116/1.4811676>

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## SURFACES

**Localized surface plasmon of Ag nanoparticles affected by annealing and its coupling with the excitons of Rhodamine 6G**

Ying-cui Fang, Liu Hong, Lei Wan, Kuan-xiang Zhang, Xin Lu, Chun-mei Wang, Jun Yang and Xiao-liang Xu

J. Vac. Sci. Technol. A **31**, 041401 (2013); <http://dx.doi.org/10.1116/1.4811819>

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## THIN FILMS

**Semiconducting p-type MgNiO:Li epitaxial films fabricated by cosputtering method**

Yong Hun Kwon, Sung Hyun Chun and Hyung Koun Cho

J. Vac. Sci. Technol. A **31**, 041501 (2013); <http://dx.doi.org/10.1116/1.4804172>

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**Mechanical and electrical properties of plasma and thermal atomic layer deposited Al<sub>2</sub>O<sub>3</sub> films on GaAs and Si**

Ram Ekwal Sah, Rachid Driad, Frank Bernhardt, Lutz Kirste, Crenguta-Columbina Leancu, Heiko Czap, Fouad Benkhelifa, Michael Mikulla and Oliver Ambacher

J. Vac. Sci. Technol. A **31**, 041502 (2013); <http://dx.doi.org/10.1116/1.4804175>

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**Growth window and effect of substrate symmetry in hybrid molecular beam epitaxy of a Mott insulating rare earth titanate**

Pouya Moetakef, Jack Y. Zhang, Santosh Raghavan, Adam P. Kajdos and Susanne Stemmer

J. Vac. Sci. Technol. A **31**, 041503 (2013); <http://dx.doi.org/10.1116/1.4804180>

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**Atomic layer deposition of zinc oxide: Understanding the reactions of ozone with diethylzinc**

Ellis J. Warner, Christopher J. Cramer and Wayne L. Gladfelter

J. Vac. Sci. Technol. A **31**, 041504 (2013); <http://dx.doi.org/10.1116/1.4806800>

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**Electrical characteristics of ZrO<sub>2</sub>/GaAs MOS capacitor fabricated by atomic layer deposition**

R. B. Konda, C. White, D. Thomas, Q. Yang and A. K. Pradhan

J. Vac. Sci. Technol. A **31**, 041505 (2013); <http://dx.doi.org/10.1116/1.4807732>

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**Influence of laser irradiation and microwave plasma treatment on the thermal properties of graphene platelets**

H. Zheng and K. Jagannadham

J. Vac. Sci. Technol. A **31**, 041506 (2013); <http://dx.doi.org/10.1116/1.4809581>[+ VIEW DESCRIPTION](#)**Investigation of structure, magnetic, and transport properties of Mn-doped SiC films**

Xianke Sun, Ruisong Guo, Yukai An and Jiwen Liu

J. Vac. Sci. Technol. A **31**, 041507 (2013); <http://dx.doi.org/10.1116/1.4809586>[+ VIEW DESCRIPTION](#)