

## LETTERS

### Phase transition characteristics under vacuum of 9,10-di(2-naphthyl)anthracene for organic light-emitting diodes

Jin-Tae Kim, Seob Shim, Jae-Su Shin, Sangwoo Kang, Ju-Young Yun and Ohyun Kwon  
J. Vac. Sci. Technol. A **32**, 020601 (2014); <http://dx.doi.org/10.1116/1.4831935>

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### On the possibility to grow zinc oxide-based transparent conducting oxide films by hot-wire chemical vapor deposition

Adulfas Abrutis, Laimis Silimavicus, Virgaudas Kubilius, Tomas Murauskas, Zita Saltyte, Sabina Kuprenaite and Valentina Plausinaitiene  
J. Vac. Sci. Technol. A **32**, 020602 (2014); <http://dx.doi.org/10.1116/1.4842695>

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### Fluorocarbon assisted atomic layer etching of SiO<sub>2</sub> using cyclic Ar/C<sub>4</sub>F<sub>8</sub> plasma

Dominik Metzler, Robert L. Bruce, Sebastian Engelmann, Eric A. Joseph and Gottlieb S. Oehrlein  
J. Vac. Sci. Technol. A **32**, 020603 (2014); <http://dx.doi.org/10.1116/1.4843575>

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### Evolution of morphology and structure of Pb thin films grown by pulsed laser deposition at different substrate temperatures

Antonella Lorusso, Francisco Gontad, Berlinda Maiolo, Giuseppe Maruccio, Vittorianna Tasco and Alessio Perrone  
J. Vac. Sci. Technol. A **32**, 020604 (2014); <http://dx.doi.org/10.1116/1.4859135>

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### Development of atomic layer deposition-activated microchannel plates for single particle detection at cryogenic temperatures

Dmitry Gorelikov, Neal Sullivan, Philippe de Rouffignac, Huazhi Li, Jayasri Narayananamoorthy and Anton S. Tremsin

J. Vac. Sci. Technol. A **32**, 020605 (2014); <http://dx.doi.org/10.1116/1.4862947>

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### Low-temperature CVD of iron, cobalt, and nickel nitride thin films from bis[di(tert-butyl)amido]metal(II) precursors and ammonia

Andrew N. Cloud, Luke M. Davis, Gregory S. Girolami and John R. Abelson  
J. Vac. Sci. Technol. A **32**, 020606 (2014); <http://dx.doi.org/10.1116/1.4865903>

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## REVIEW ARTICLES

### Critical review: Effects of complex interactions on structure and dynamics of supported metal catalysts

Anatoly I. Frenkel, Michael W. Cason, Annika Elsen, Ulrich Jung, Matthew W. Small, Ralph G. Nuzzo, Fernando D. Vila, John J. Rehr, Eric A. Stach and Judith C. Yang  
J. Vac. Sci. Technol. A **32**, 020801 (2014); <http://dx.doi.org/10.1116/1.4820493>

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## INTERFACES

### Controlled ambient and temperature treatment of InGaZnO thin film transistors for improved bias-illumination stress reliability

Rajitha N. P. Vemuri, Muhammad R. Hasin and T. L. Alford  
J. Vac. Sci. Technol. A **32**, 021101 (2014); <http://dx.doi.org/10.1116/1.4846216>

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### Novel method for the prediction of an interface bonding species at alumina/metal interfaces

Michiko Yoshitake, Shinjiro Yagyu and Toyohiro Chikyow  
J. Vac. Sci. Technol. A **32**, 021102 (2014); <http://dx.doi.org/10.1116/1.4849375>

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### Second-harmonic intensity and phase spectroscopy as a sensitive method to probe the space-charge field in Si(100) covered with charged dielectrics

Nick M. Terlinden, Vincent Vandalon, Roger H. E. C. Bosch and W. M. M. (Erwin) Kessels  
J. Vac. Sci. Technol. A **32**, 021103 (2014); <http://dx.doi.org/10.1116/1.4862145>

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### Determination of subband energies and 2DEG characteristics of $\text{Al}_x\text{Ga}_{1-x}\text{N}/\text{GaN}$ heterojunctions using variational method

Farzin Manouchehri, Pouya Valizadeh and M. Z. Kabir  
J. Vac. Sci. Technol. A **32**, 021104 (2014); <http://dx.doi.org/10.1116/1.4865562>

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## PHOTOVOLTAICS AND ENERGY

### Self limiting deposition of pyrite absorbers by pulsed PECVD

Christopher D. Sentman, Maria O'Brien and Colin A. Wolden  
J. Vac. Sci. Technol. A **32**, 021201 (2014); <http://dx.doi.org/10.1116/1.4828818>

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### Highly transparent Nb-doped indium oxide electrodes for organic solar cells

Jun Ho Kim, Tae-Yeon Seong, Seok-In Na, Kwun-Bum Chung, Hye-Min Lee and Han-Ki Kim  
J. Vac. Sci. Technol. A **32**, 021202 (2014); <http://dx.doi.org/10.1116/1.4832238>

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## PLASMA SCIENCE AND TECHNOLOGY

### **MD simulations of low energy $\text{Cl}_x^+$ ions interaction with ultrathin silicon layers for advanced etch processes**

Paulin Brichon, Emilie Despiau-Pujo and Olivier Joubert

J. Vac. Sci. Technol. A **32**, 021301 (2014); <http://dx.doi.org/10.1116/1.4827016>

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### **Plasma damage mechanisms in low k organosilicate glass and their inhibition by Ar ion bombardment**

Haseeb Kazi and Jeffry A. Kelber

J. Vac. Sci. Technol. A **32**, 021302 (2014); <http://dx.doi.org/10.1116/1.4838935>

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### **Modeling of inductively coupled plasma $\text{SF}_6/\text{O}_2/\text{Ar}$ plasma discharge: Effect of $\text{O}_2$ on the plasma kinetic properties**

Amand Pateau, Ahmed Rhallabi, Marie-Claude Fernandez, Mohamed

Boufnichel and Fabrice Roqueta

J. Vac. Sci. Technol. A **32**, 021303 (2014); <http://dx.doi.org/10.1116/1.4853675>

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### **Comparison of surface vacuum ultraviolet emissions with resonance level number densities. I. Argon plasmas**

John B. Boffard, Chun C. Lin, Cody Culver, Shicong Wang, Amy E. Wendt, Svetlana Radovanov and Harold Persing

J. Vac. Sci. Technol. A **32**, 021304 (2014); <http://dx.doi.org/10.1116/1.4859376>

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### **Fabrication of tapered graded-refractive-index micropillars using ion-implanted-photoresist as an etch mask**

Ming Ma, E. Fred Schubert, Jaehee Cho, Morgan Evans, Gi Bum Kim and Cheolsoo Sone

J. Vac. Sci. Technol. A **32**, 021305 (2014); <http://dx.doi.org/10.1116/1.4862547>

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### **Role of the blocking capacitor in control of ion energy distributions in pulsed capacitively coupled plasmas sustained in $\text{Ar}/\text{CF}_4/\text{O}_2$**

Sang-Heon Song and Mark J. Kushner

J. Vac. Sci. Technol. A **32**, 021306 (2014); <http://dx.doi.org/10.1116/1.4863948>

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### **Process monitoring during $\text{AlN}_x\text{O}_y$ deposition by reactive magnetron sputtering and correlation with the film's properties**

Joel Borges, Nicolas Martin, Filipe Vaz and Luis Marques

J. Vac. Sci. Technol. A **32**, 021307 (2014); <http://dx.doi.org/10.1116/1.4863957>

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## SURFACES

### **TOF SIMS analysis and generation of white photoluminescence from strontium silicate codoped with europium and terbium**

Modiehi A. Tshabalala, Hendrik C. Swart and Odireleng M. Ntwaeborwa

J. Vac. Sci. Technol. A **32**, 021401 (2014); <http://dx.doi.org/10.1116/1.4862752>

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### **Chemical mechanical planarization of gold**

Golnaz Karbasian, Patrick J. Fay, Huili Grace Xing, Alexei O. Orlov and Gregory L. Snider

J. Vac. Sci. Technol. A **32**, 021402 (2014); <http://dx.doi.org/10.1116/1.4863275>

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## THIN FILMS

### **Reactive sputtering of substoichiometric Ta<sub>2</sub>O<sub>x</sub> for resistive memory applications**

James E. Stevens, Andrew J. Lohn, Seth A. Decker, Barney L. Doyle, Patrick R.

Mickel and Matthew J. Marinella

J. Vac. Sci. Technol. A **32**, 021501 (2014); <http://dx.doi.org/10.1116/1.4828701>

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### **Properties of zinc oxide films grown on sapphire substrates using high-temperature H<sub>2</sub>O generated by a catalytic reaction on platinum nanoparticles**

Kanji Yasui, Tomohiko Takeuchi, Eichi Nagatomi, Souichi Satomoto, Hitoshi

Miura, Takahiro Kato and Takayuki Konya

J. Vac. Sci. Technol. A **32**, 021502 (2014); <http://dx.doi.org/10.1116/1.4831969>

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### **Mechanical and transparent conductive properties of ZnO and Ga-doped ZnO films sputtered using electron-cyclotron-resonance plasma on polyethylene naphtalate substrates**

Housei Akazawa

J. Vac. Sci. Technol. A **32**, 021503 (2014); <http://dx.doi.org/10.1116/1.4831979>

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### **Mechanical and tribological properties of Sn-Cu-O films prepared by reactive magnetron sputtering**

Jindřich Musil, Martin Hromádka, Radomír Čerstvý and Zbyněk Soukup

J. Vac. Sci. Technol. A **32**, 021504 (2014); <http://dx.doi.org/10.1116/1.4859275>

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### **Vibrational spectra of CO adsorbed on oxide thin films: A tool to probe the surface defects and phase changes of oxide thin films**

Aditya Savara

J. Vac. Sci. Technol. A **32**, 021505 (2014); <http://dx.doi.org/10.1116/1.4858619>

[+ VIEW DESCRIPTION](#)**Effect of thermal annealing on the properties of transparent conductive In–Ga–Zn oxide thin films**

Ling Li, Lina Fan, Yanhuai Li, Zhongxiao Song, Fei Ma and Chunliang Liu

J. Vac. Sci. Technol. A **32**, 021506 (2014); <http://dx.doi.org/10.1116/1.4861352>[+ VIEW DESCRIPTION](#)**Chemical bonding and defect states of LPCVD grown silicon-rich Si<sub>3</sub>N<sub>4</sub> for quantum dot applications**

Shakil Mohammed, Michael T. Nimmo, Anton V. Malko and Christopher L. Hinkle

J. Vac. Sci. Technol. A **32**, 021507 (2014); <http://dx.doi.org/10.1116/1.4861338>[+ VIEW DESCRIPTION](#)**Mechanical and phase stability of TiBC coatings up to 1000 °C**

Manuel D. Abad, Stephen C. Veldhuis, Jose L. Endrino, Ben D. Beake, Alberto García-Luis, Marta Brizuela and Juan C. Sánchez-López

J. Vac. Sci. Technol. A **32**, 021508 (2014); <http://dx.doi.org/10.1116/1.4861365>[+ VIEW DESCRIPTION](#)**Influence of ion-to-atom ratio on the microstructure of evaporated molybdenum thin films grown using low energy argon ions**

Praveen Kumar Yadav, Tushar Sant, Chandrachur Mukherjee, Maheswar Nayak, Sanjay Kumar Rai, Gyanendra Singh Lodha and Surinder Mohan Sharma

J. Vac. Sci. Technol. A **32**, 021509 (2014); <http://dx.doi.org/10.1116/1.4862141>[+ VIEW DESCRIPTION](#)**Dynamic XPS measurements of ultrathin polyelectrolyte films containing antibacterial Ag–Cu nanoparticles**

Merve Taner-Camci and Sefik Suzer

J. Vac. Sci. Technol. A **32**, 021510 (2014); <http://dx.doi.org/10.1116/1.4862155>[+ VIEW DESCRIPTION](#)**Deposition and characterization of Cd<sub>1-x</sub>Mg<sub>x</sub>Te thin films grown by a novel cosublimation method**

Pavel S. Kobyakov, Andrew Moore, John M. Raguse, Drew E. Swanson and Walajabad S. Sampath

J. Vac. Sci. Technol. A **32**, 021511 (2014); <http://dx.doi.org/10.1116/1.4863314>[+ VIEW DESCRIPTION](#)**Degradation of transparent conductive properties of undoped ZnO and Ga-doped ZnO films left in atmospheric ambient for several years and trials to recover initial conductance**

Housei Akazawa

J. Vac. Sci. Technol. A **32**, 021512 (2014); <http://dx.doi.org/10.1116/1.4866233>[+ VIEW DESCRIPTION](#)

**Influence of Ar/Kr ratio and pulse parameters in a Cr-N high power pulse magnetron sputtering process on plasma and coating properties**

Kirsten Bobzin, Nazim Bagcivan, Sebastian Theiß, Jan Trieschmann, Ricardo Henrique Brugnara, Sven Preissing and Ante Hecimovic

J. Vac. Sci. Technol. A **32**, 021513 (2014); <http://dx.doi.org/10.1116/1.4865917>

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**Characterization of plasma-enhanced atomic layer deposition of Al<sub>2</sub>O<sub>3</sub> using dimethylaluminum isopropoxide**

Jialing Yang, Brianna S. Eller, Manpuneet Kaur and Robert J. Nemanich

J. Vac. Sci. Technol. A **32**, 021514 (2014); <http://dx.doi.org/10.1116/1.4866378>

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**Effects of the cathode grain size and substrate fixture movement on the evolution of arc evaporated Cr-cathodes and Cr-N coating synthesis**

Jianqiang Zhu, Bilal Syed, Peter Polcik, Greger Håkansson, Mats Johansson-Jöesaar, Mats Ahlgren and Magnus Odén

J. Vac. Sci. Technol. A **32**, 021515 (2014); <http://dx.doi.org/10.1116/1.4865923>

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## VACUUM SCIENCE AND TECHNOLOGY

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**Gas flow through microtubes with different internal surface coatings**

M. Hadj Nacer, I. Graur, P. Perrier, J. G. Mélolans and M. Wuest

J. Vac. Sci. Technol. A **32**, 021601 (2014); <http://dx.doi.org/10.1116/1.4828955>

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**Hybrid modeling of time-dependent rarefied gas expansion**

Manuel Vargas, Sterios Naris, Dimitris Valougeorgis, Sarantis Pantazis and Karl Jousten

J. Vac. Sci. Technol. A **32**, 021602 (2014); <http://dx.doi.org/10.1116/1.4830283>

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**Optimization of closed ion source for a high-sensitivity residual gas analyzer**

Cheolsu Han, Jong Rok Ahn, Sang Jung Ahn and Chang Joon Park

J. Vac. Sci. Technol. A **32**, 021603 (2014); <http://dx.doi.org/10.1116/1.4835635>

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## VACUUM SCIENCE AND TECHNOLOGY

### **Effect of heat treatments and coatings on the outgassing rate of stainless steel chambers**

Md Abdullah A. Mamun, Abdelmageed A. Elmustafa, Marcy L. Stutzman, Philip A. Adderley and Matthew Poelker

J. Vac. Sci. Technol. A **32**, 021604 (2014); <http://dx.doi.org/10.1116/1.4853795>

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## SHOP NOTES

### **Vacuum compatibility of silver and titanium parts made using three-dimensional printing**

Ashley R. Gans, Matthew M. Jobbins, David Y. Lee and S. Alex Kandel

J. Vac. Sci. Technol. A **32**, 023201 (2014); <http://dx.doi.org/10.1116/1.4846195>

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### **Low cost photoelectron yield setup for surface process monitoring**

Adrian Hemmi, Huanyao Cun, Silvan Roth, Jürg Osterwalder and Thomas Greber

J. Vac. Sci. Technol. A **32**, 023202 (2014); <http://dx.doi.org/10.1116/1.4866095>

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## PAPERS FROM THE 12TH INTERNATIONAL SYMPOSIUM ON SPUTTERING AND PLASMA PROCESSES

### **Internal oxidation and mechanical properties of Ru based alloy coatings**

Yung-I Chen, Hsiu-Nuan Chu, Li-Chun Chang and Jyh-Wei Lee

J. Vac. Sci. Technol. A **32**, 02B101 (2014); <http://dx.doi.org/10.1116/1.4826585>

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### **Effect of hydrogen plasma irradiation of catalyst films on growth of carbon nanotubes filled with iron nanowires**

Hideki Sato, Nobuo Kubonaka, Atsushi Nagata and Yuji Fujiwara

J. Vac. Sci. Technol. A **32**, 02B102 (2014); <http://dx.doi.org/10.1116/1.4827822>

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### **Defects in nonpolar (1340) ZnO epitaxial film grown on (114) LaAlO<sub>3</sub> substrate**

Tzu-Chun Yen, Wei-Lin Wang, Chun-Yen Peng, Jr-Sheng Tian, Yen-Teng Ho and Li Chang

J. Vac. Sci. Technol. A **32**, 02B103 (2014); <http://dx.doi.org/10.1116/1.4830275>

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### **Effects of magnetic flux density and substrate bias voltage on Ni films prepared on a flexible substrate material using unbalanced magnetron sputtering assisted by inductively coupled plasma**

Tatsunori Koda and Hiroshi Toyota

J. Vac. Sci. Technol. A **32**, 02B104 (2014); <http://dx.doi.org/10.1116/1.4832226>

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**Low-cost Xe sputtering of amorphous In-Ga-Zn-O thin-film transistors by rotation magnet sputtering incorporating a Xe recycle-and-supply system**

Tetsuya Goto, Hidekazu Ishii, Shigetoshi Sugawa and Tadahiro Ohmi

J. Vac. Sci. Technol. A **32**, 02B105 (2014); <http://dx.doi.org/10.1116/1.4835775>

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**Colored hard coatings with AlN–TiN multilayer structures**

Jong Hong Lu and Bo Ying Chen

J. Vac. Sci. Technol. A **32**, 02B106 (2014); <http://dx.doi.org/10.1116/1.4838895>

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**Investigation of nanostructured transparent conductive films grown by rotational-sequential-sputtering**

Jong-Hong Lu, Bo-Ying Chen and Chih-Hsuan Wang

J. Vac. Sci. Technol. A **32**, 02B107 (2014); <http://dx.doi.org/10.1116/1.4846155>

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**Performance improvement of gadolinium oxide resistive random access memory treated by hydrogen plasma immersion ion implantation**

Jer-Chyi Wang, Chih-Hsien Hsu, Yu-Ren Ye, Chi-Fong Ai and Wen-Fa Tsai

J. Vac. Sci. Technol. A **32**, 02B108 (2014); <http://dx.doi.org/10.1116/1.4846176>

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**Interaction between water cluster ions and mica surface**

Hiromichi Ryuto, Yuki Ohmura, Minoru Nakagawa, Mitsuaki Takeuchi and Gikan H. Takaoka

J. Vac. Sci. Technol. A **32**, 02B109 (2014); <http://dx.doi.org/10.1116/1.4849323>

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**Low-temperature synthesis of diamond films by photoemission-assisted plasma-enhanced chemical vapor deposition**

Mayuri Kawata, Yoshihiro Ojiro, Shuichi Ogawa, Tomoaki Masuzawa, Ken Okano and Yuji Takakuwa

J. Vac. Sci. Technol. A **32**, 02B110 (2014); <http://dx.doi.org/10.1116/1.4849355>

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**Effect of plasma treatment of resistive layer on a Cu/SiO<sub>x</sub>/Pt memory device**

Chih-Yi Liu, Yueh-Ying Tsai and Chun-Hung Lai

J. Vac. Sci. Technol. A **32**, 02B111 (2014); <http://dx.doi.org/10.1116/1.4859235>

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**Oxygen plasma immersion ion implantation treatment to enhance data retention of tungsten nanocrystal nonvolatile memory**

Jer-Chyi Wang, Wei-Cheng Chang, Chao-Sung Lai, Li-Chun Chang, Chi-Fong Ai and Wen-Fa Tsai

J. Vac. Sci. Technol. A **32**, 02B112 (2014); <http://dx.doi.org/10.1116/1.4858600>

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**Synthesis and deposition of metal nanoparticles by gas condensation process**

Marina Maicu, Ralph Schmittgens, Dominic Hecker, Daniel Glöß, Peter Frach and Gerald Gerlach

J. Vac. Sci. Technol. A **32**, 02B113 (2014); <http://dx.doi.org/10.1116/1.4859260>

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**Growth of FePt encapsulated carbon nanotubes by thermal chemical vapor deposition**

Yuji Fujiwara, Tetsuya Kaneko, Kenta Hori, Sho Takase, Hideki Sato, Kohji Maeda, Tadashi Kobayashi, Takeshi Kato, Satoshi Iwata and Mutsuko Jimbo

J. Vac. Sci. Technol. A **32**, 02B114 (2014); <http://dx.doi.org/10.1116/1.4862087>

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**CrN<sub>x</sub> films prepared using feedback-controlled high power impulse magnetron sputter deposition**

Wan-Yu Wu, Bo-Hung Hsiao, Pin-Hung Chen, Wei-Chih Chen, Chun-Ta Ho and Chi-Lung Chang

J. Vac. Sci. Technol. A **32**, 02B115 (2014); <http://dx.doi.org/10.1116/1.4862147>

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**Electrical properties of TiN on gallium nitride grown using different deposition conditions and annealing**

Lian Li, Akinori Kishi, Takayuki Shiraishi, Ying Jiang, Qingpeng Wang and Jin-Ping Ao

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**Antibacterial properties and cytocompatibility of tantalum oxide coatings with different silver content**

Heng-Li Huang, Yin-Yu Chang, Hung-Jui Chen, Yu-Kai Chou, Chih-Ho Lai and Michael Y. C. Chen

J. Vac. Sci. Technol. A **32**, 02B117 (2014); <http://dx.doi.org/10.1116/1.4862543>

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### **Structural, optical, and electrical properties of NiO-In composite films deposited by radio frequency cosputtering**

Sheng-Chi Chen, Tsung-Yen Kuo, Hsin-Chih Lin, Chao-Kuang Wen, Yu-Chin Lin and Cong-Da Chen

J. Vac. Sci. Technol. A **32**, 02B118 (2014); <http://dx.doi.org/10.1116/1.4865808>

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### **Effect of annealing treatment on the electrical characteristics of Pt/Cr-embedded ZnO/Pt resistance random access memory devices**

Li-Chun Chang, Hsuan-Ling Kao and Keng-Hao Liu

J. Vac. Sci. Technol. A **32**, 02B119 (2014); <http://dx.doi.org/10.1116/1.4865551>

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