

Dr. Ralph Domnick: Publikationsliste

"Metastable single-phase polycrystalline aluminium oxynitride films grown by MSIP: Constitution, structure and morphology"

A. von Richthofen, R. Domnick
Thin Solid Films 283, 1996, 37

"Cu-N films grown by reactive MSIP: Constitution, structure and morphology" A. von Richthofen, R. Domnick, R. Cremer

Mikrochim. Acta, 125, 1997, 173

"Preparation of polycrystalline Ti-Al-O films by magnetron sputtering ion plating: constitution, structure, and morphology"

A. von Richthofen, R. Cremer, R. Domnick, D. Neuschütz
Fresenius J. Anal. Chem. 358, 1997, 308

"Preparation of cuprite (Cu_2O), paramelaconite ($\text{Cu}_3^{2+}\text{Cu}_2^{1+}\text{O}_4$) and tenorite (CuO) with MSIP: characterization by EPMA, XRD, HEED, and SEM"

A. von Richthofen, R. Domnick, R. Cremer, D. Neuschütz
Fresenius J. Anal. Chem. 358, 1997, 312

"Struktur und Zusammensetzung von PVD-Schichten im System Cu-O-N"

R. Domnick, Diss. RWTH Aachen, Verlag Mainz, Aachen, ISBN 3-89653-154-9

"Preparation of a new tetragonal copper oxynitride phase by reactive magnetron sputtering ion plating"

A. von Richthofen, R. Domnick, R. Cremer, D. Neuschütz, Thin Solid Films 317, 1998, 282

"Use of Auger- and photoelectron lines in identification of chemical states by electron spectroscopy of novel ternary Ti-Al-O films prepared by reactive magnetron sputtering ion plating"

A. von Richthofen, R. Cremer, R. Domnick, M. Witthaut, D. Neuschütz, Thin Solid Films 315, 1998, 66

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"Composition, binding states, structure, and morphology of the corrosion layer of an oxidized Ti_{0.46}Al_{0.54}N film"

A. von Richthofen, R. Cremer, M. Witthaut, R. Domnick, D. Neuschütz, Thin Solid Films 312, 1998, 190

"Formation of a new type of chromium oxide by deposition of chromium onto water covered Cu(111)"

J. Pantförder, R. Domnick, C. Ammon, G. Held and H.-P. Steinrück, Surface Sci. 480 (2001) 73-83

"Segregation effects and chemical properties of nickel monolayers on Cu(111)" R. Domnick, G. Held, H. Koschel, Ch. Ammon and H.-P. Steinrück

Surface Sci. 482-485 (2001) 1292-1297

"The transition from oxygen chemisorption to oxidation of ultra-thin Ni layers on Cu(111)"

R. Domnick, G. Held, P. Witte and H.-P. Steinrück, J. Chem. Phys. 115 (2001) 1902-1908

"Temperature dependent oxidation of thin Ni layers on Cu(111)"

R. Domnick, G. Held and H.-P. Steinrück, Surface Sci. 516 (2002) 95-102

"Combinatorial investigation of the isolated nanoparticle to coalescent layer transition in a gradient sputtered gold nanoparticle multiplayer"

S.V.Roth, H.Walter, M.Burghammer, C.Riekel, B.Lengeler, C.Schroer, M. Kuhlmann, T.Walther, R.Domnick, P.Müller-Buschbaum Appl.Phys.Lett. **88**, 021910 (2006)

"Novel security feature made by thin film coating technology"

M. Bergsmann, F. Kastner, G. Bauer, R. Domnick, H. Walter
45th SVC Annual Technical Conference Proceedings 2002

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“Cluster layers for Surface Enhanced Absorption (SEA)”

H. Walter, G. Bauer, R. Domnick, J. Hassmann
45th SVC Annual Technical Conference Proceedings 2002

“Direct forgery-proof thin film coatings on products”

R. Domnick, M. Belzner, G. Bauer, J. Hassmann, H. Walter
46th SVC Annual Technical Conference Proceedings 2003

Influence of Nanosized Metal Clusters on the Generation of Strong Colors and Controlling of their Properties through Physical Vapor Deposition (PVD)

R. Domnick, M. Bauer, S. Genov, R. Friedel, G. Bauer, M. Belzner
49th SVC Annual Technical Conference Proceedings 2006

Combinatorial Investigation of the Isolated Nanoparticle to Coalescent Layer Transition in a Gradient Sputtered Gold Nanoparticle Layer on Top of Polystyrene

Stephan V Roth, H. Walter, M. Burghammer, C. Riekel, B. Lengeler, Christian G. Schroer, M. Kuhlmann, Thomas Walther, A. Sehrbrock, R. Domnick, Peter Müller-Buschbaum
Applied Physics Letters 88(2):021910-021910-3 January 2006

Role of granular structure in metal layers on the optical properties of absorbing mirrors

Harald Walter, Georg Bauer, Ralph Domnick, Georg Jakopic, Alfred Leitner
Optical Engineering 45(10):103801 October 2006

Interference based Nano Color Coatings: Color stability and applications

R. Domnick, A. Ortner, M. Belzner
50th SVC Annual Technical Conference Proceedings 2007

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Decorative Nano Colour Coatings with enhanced mechanical and chemical properties

M. Belzner, R. Domnick

51th SVC Annual Technical Conference Proceedings 2008