Highlighted publications by Zsolt Czigány

Selection based on scientific level, significance of contribution and personal feeling of achievement. Some of the papers are milestones in my carrier.

Zsolt Czigány and György Radnóczi Columnar growth structure and evolution of wavy interface morphology in amorphous and polycrystalline multilayered thin films
Thin Solid Films 347 (1999) 133-145 **I.F.: 1.101**

Zsolt Czigány, Ian Brunell, Jörg Neidhardt, Kazu Suenaga, and Lars Hultman
Growth of fullerene-Like Carbon Nitride Thin solid Films Consisting of Cross-Linked Nano-Onions
Appl. Phys. Lett. 79 (2001) 2639-41 **I.F.: 3.849**

L. Hultman, S. Stafström, Zs. Czigány, J. Neidhardt, N. Hellgren, I. Brunell, K. Suenaga and C. Colliex
Cross-Linked Nano-Onions of Carbon Nitride in Solid Phase; Existance of novel $C_{48}N_{12}$ Aza-Fullerene
Phys. Rev. Lett. 87 (2001) 225503-1-4 **I.F.: 6.668**

Zsolt Czigány and Lars Hultman
Interpretation of electron diffraction patterns from amorphous and fullerene-like carbon allotropes
Ultramicroscopy 110 (2010) 815-819 **IF: 2.061**
Outstanding Paper Award of European Microscopy Society in 2010

Zsolt Czigány, Fanni Misják, Olga Geszti and György Radnóczi
Structure and phase formation in Cu-Mn alloy thin films deposited at room temperature.
Acta Materialia 60 (2012) 7226–7231 **IF: 3.3941**

Mikhail Chubarov, Henrik Pedersen, Hans Högberg, Zsolt Czigány, Magnus Garbrecht and Anne Henry
Polytype pure sp^2-BN thin films as dictated by the substrate crystal structure
Chemistry of Materials 27(5) (2015) 1640-1645 **IF: 9.407**

Damian M. Holzapfel, Zsolt Czigány, Anders O. Eriksson, Mirjam Arndt and Jochen M. Schneider
Thermal stability of macroparticles in $Ti_{0.27}Al_{0.21}N_{0.52}$ coatings
Applied Surface Science 553 (2021) 149527 **IF: 7.392)**

Marcus Hans, Zsolt Czigány, Deborah Neuß, Janis A. Sälker, Holger Rueß, Janina Krause, Ganesh K. Nayak, David Holec, Jochen M. Schneider
Probing the onset of wurtzite phase formation in (V,Al)N thin films by transmission electron microscopy and atom probe tomography
Surf. Coat. Technol. 442 (2022) 128235 **IF: 5.4**

Zsolt Czigány and Viktória Kovács Kis
Acquisition and evaluation procedure to improve the accuracy of SAED
Microscopy Research and Technique 86 (2023) 111870 IF: 2.5