

The 2012 Cahn Prize Finalists

- December 2012 Wetting of calcium fluoride by liquid metals
S Barzilai, N Froumin, E Glickman, D Fuks, N Frage
<https://rdcu.be/b0b9T>
J Mater Sci 47(24) 8404–8418
- November 2012 First principles calculations of oxygen vacancy-ordering effects in resistance change memory materials incorporating binary transition metal oxides
B Magyari-Kope, SG Park, HD Lee, Y Nishi
<https://rdcu.be/b0b9Y>
J Mater Sci 47, 7498–7514
- October 2012 Room temperature fracture processes of a near-alpha titanium alloy following elevated temperature exposure
AL Pilchak, WJ Porter, R John
<https://rdcu.be/b0b90>
J Mater Sci 47(20) 7235–7253
- September 2012 The effect of indentation-induced microcracks on the elastic modulus of hydroxyapatite
X Fan, ED Case, MJ Baumann
<https://rdcu.be/b0b93>
J Mater Sci 47(17) 6333–6345
- August 2012 Phase transformations and segregation in Fe–Ni alloys and nanoalloys
M Byshkin, M Hou
<https://rdcu.be/b0b96>
J Mater Sci 47(15) 5784–5793
- July 2012 Dislocation structure at a {1210}<1010> low-angle tilt grain boundary in LiNbO₃
A Nakamura, E Tochigi, J Nakamura, I Kishida, Y Yokogawa
<https://rdcu.be/b0cac>
J Mater Sci 47(13) 5086–5096
- June 2012 Preparation of mesoscopic gold rings and split rings by selective wetting of the contact points between the spheres within colloidal crystals
S Kaufmann, H Schletter, D Lehmann, F Haidu, DRT Zahn, M Hietschold and WA Goedel
<https://rdcu.be/b0caf>
J Mater Sci 47, 4530–4539
- May 2012 Quasi chemical and defect correlation models for intermetallic compounds with B2-structure: new applications
Olga Semenova and Regina Krachler
<https://rdcu.be/b0cap>
J Mater Sci 47(10) 4439–4448
- April 2012 Connecting the macro and microstrain responses in technical porous ceramics. Part II: microcracking
G Bruno, AM Efremov, CP An, BR Wheaton and DJ Hughes
<https://rdcu.be/b0cat>
J Mater Sci 47, 3674–3689
- March 2012 Surface form memory in NiTi shape memory alloys by laser shock Indentation
X Fei, DS Grummon, C Ye, GJ Cheng and YT Cheng
<https://rdcu.be/b0caw>
J Mater Sci 47
- February 2012 Structure of multilayer ZrO₂/SrTiO₃
WL Cheah, MW Finnis
J Mater Sci 47
- January 2012 Studying grain boundary regions in polycrystalline materials using spherical nano-indentation and orientation imaging microscopy
S Pathak, J Michler, K Wasmer, SR Kalidindi
<https://rdcu.be/b0caw>
J Mater Sci 47(5) 2088–2094