

### The 2013 Cahn Prize Finalists

- December 2013 Scaling of conductivity and Young's modulus in replicated microcellular materials  
Andreas Mortensen, Yves Conde, Andreas Rossoll, Christopher San Marchi  
<https://rdcu.be/b0caH>  
J Mater Sci 48, 8140–8146
- November 2013 Internal melting and coarsening of liquid droplets in an Al–Cu alloy: a 4-D experimental study  
Sofiane Terzi, Luc Salvo, Michel Suery, Arne K. Dahle, Elodie Boller  
<https://rdcu.be/b0caO>  
J Mater Sci 48, 7422–7434
- October 2013 Inertial stabilization of flexible polymer micro-lattice materials  
Sha Yin, Alan J. Jacobsen, Linzhi Wu, Steven R. Nutt  
<https://rdcu.be/b0caR>  
J Mater Sci 48(19) 6558–6566
- September 2013 Thermodynamic investigations of copper oxides used as conversion type electrodes in lithium ion batteries  
Maren Lepple, Robert Adam, Damian M. Cupid, Peter Franke, Thomas Bergfeldt, Daniel Wadewitz, David Rafaja, Hans J. Seifert  
<https://rdcu.be/b0caV>  
J Mater Sci 48(17) 5818–5826
- August 2013 Isochronal crystallization kinetics of Fe<sub>40</sub>Ni<sub>40</sub>B<sub>20</sub> amorphous alloy  
Yazhu Ma, Bastian Rheingans, Feng Liu, Eric J. Mittemeijer  
<https://rdcu.be/b0caI>  
J Mater Sci 48, 5596–5606
- July 2013 Creep in an electrodeposited nickel  
Vaclav Sklenicka, Kveta Kucharova, Marie Kvapilova, Milan Svoboda, Petr Kral, Gabriele Vidrich  
<https://rdcu.be/b0ca5>  
J Mater Sci 48, 4780–4788
- June 2013 Oxidation of nanodiamonds and modulation of their assembly in polymer-based nanohybrids by field-inducement  
Hong-Baek Cho, Son Thanh Nguyen, Tadachika Nakayama, Minh Triet Tan Huynh, Hisayuki Suematsu, Tsuneo Suzuki, Weihua Jiang, Shaifulazuar Bin Rozali, Yoshinori Tokoi, Yeung-Ho Park, Koichi Niihara  
<https://rdcu.be/b0ca8>  
J Mater Sci 48(12) 4151–4162
- May 2013 Atomic structure of hardening precipitates in an Al–Mg–Zn–Cu alloy determined by HAADF-STEM and first-principles calculations: relation to MgZn<sub>2</sub>  
Calin D. Marioara, Williams Lefebvre, Sigmund J. Andersen, Jesper Friis  
<https://rdcu.be/b0cbi>  
J Mater Sci 48(10) 3638–3651
- April 2013 Effects of impurities on the lattice dynamics of nanocrystalline silicon for thermoelectric application  
Tania Claudio, Gabi Schierning, Ralf Theissmann, Hartmut Wiggers, Helmut Schober, Michael Marek Koza, Raphael P. Hermann  
<https://rdcu.be/b0cbm>  
J Mater Sci 48, 2836–2845
- March 2013 Modelling the deformation of a confectionery wafer as a non-uniform sandwich structure  
I. K. Mohammed, M. N. Charalambides, J. G. Williams, J. Rasburn  
<https://rdcu.be/b0cbs>  
J Mater Sci 48, 2462–2478
- February 2013 Dislocation controlled wear in single crystal silicon carbide  
Maneesh Mishra, Izabela Szlufarska  
<https://rdcu.be/b0cbA>  
J Mater Sci 48, 1593–1603
- January 2013 Effect of high pressure and high temperature on the microstructural evolution of a single crystal Ni-based superalloy  
Inmaculada Lopez-Galilea, Stephan Huth, Werner Theisen, Thomas Fockenberg, Sumit Chakraborty  
<https://rdcu.be/b0cbJ> J Mater Sci 48, 348–358