Publications 2012 - 2017

Total number published, in press, or accepted: 303

* Joint publications between CMEDE consortium and ARL researchers

**Ceramics**

**2017**


**2016**

subjected to laser shock compression."
Proceedings of the National Academy of Sciences 113. 43 (2016): 12088-12093

2015

9 Gao, Y., Rafaniello, B., Toksoy, M. F., Munhollon, T., and Haber, R. "Improvement of crystallization and particle size distribution of boric acid in the processing of a boron carbide precursor." RSC Adv. 5. 25 (2015): 19067-19073

2014


2013


2012


Composites

2017

2016
7 Jang, C. and Abrams, C. "Thermal and mechanical properties of thermosetting polymers
using coarse-grained simulation." The European Physical Journal Special Topics 225. 8 (2016): 1775-1783


2015


2014


2013


2012


Integrative
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<th>Year</th>
<th>Author(s)</th>
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<td></td>
<td>Grinfeld (a.k.a. Greenfield), M.</td>
<td>&quot;Thermodynamic models of phase transformations and failure waves.&quot;</td>
<td>Wave Motion 50. 7 (2013): 1118-1126</td>
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5 Taylor, D. "Intermolecular Forces and Molecular Dynamics Simulation of 1,3,5-Triamino-2,4,6-trinitrobenzene (TATB) Using Symmetry Adapted Perturbation Theory." The Journal of Physical Chemistry A 117. 16 (2013): 3507-3520

2012

Metals
2017


2016


10 Lloyd, J. and Becker, R. "Stress-based crystal analysis of yielding in rolled Mg AZ31B." Philosophical Magazine 96. 4 (2016): 370-386


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1 Agnew, S., Whittington, W., Oppedal, A., El, K. H., Shaeffer, M., Ramesh, K., Bhattacharyya, J., Delorme, R., and Davis, B. "Dynamic Behavior of a Rare-Earth-Containing Mg Alloy, WE43B-T5, Plate with Comparison to Conventional Alloy, AM30-F." JOM 66. 2 (2014): 277-290


10 Queyreau, S., Marian, J., Wirth, B. D., and Arsenlis, T. "Analytical integration of the forces induced by dislocations on a surface element." Modelling and Simulation in Materials Science and Engineering 22. 3 (2014): 35004-35004

2013
to instrumented indentation on non-uniform materials: Application to niobium subjected to high pressure torsion." Materials Science and Engineering: A 586. (2013): 149-159


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8 Jadhao, V. and Robbins, M. "Correction for Jadhao and Robbins, Probing large viscosities in glass-formers with nonequilibrium simulations."

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4 Sliozberg, Y. R., Kröger, M., and Chantawansri, T. "Fast equilibration protocol for million atom systems of highly entangled linear polyethylene


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2014


7 Rahman, R. and Foster, J. "Bridging the length scales through nonlocal hierarchical multiscale modeling scheme." Computational Materials

2013

2012
8 "Nilakantan, G., Wetzel, E. D., Bogetti, T., and Gillespie, J. "Finite element analysis of projectile size and shape effects on the probabilistic penetration response of high strength fabrics."


## Summary

*Published, in press, and accepted*

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