Below is the list of papers I am author/co-author of on the topic of peridynamics. More papers on peridynamics can be found at the Wikipedia entry for peridynamics. The topics covered in my papers are:

* dynamic fracture/crack branching: [P15], [P14], [P13], [P10], [P5], [R1], [C2] and [C3].
* composites/intersonic crack propagation: [P12], [P7], [C1], [C4].
* heat flow in cracking media: [P11], [P6].
* polycrystalline ceramics: [C4] and [U1].
* adaptive refinement/multiscale modeling: [P9], [P8], [P3].
* nanoscale effects, nanofibers:[P2], [P1], [C5], [C6].
* membranes: [P1]
* other topics: [P4]

The files are in the zipped folder at   
....  
This link is valid for the next two weeks only.  
  
See the reference list below. Conference papers are C1-C6, "in press" or "in review" papers are R1, unpublished reports are U1. Please feel free to share this with anyone interested.   
  
--------------------------------------------------------------  
**Published Journal papers:**

[P15] **F. Bobaru**, Y.D. Ha, and W. Hu, “Damage progression from impact in layered glass modeled with peridynamics”, *Central European Journal of Engineering*, DOI: 10.2478/s13531-012-0020-6 (2012).

[P14] **F. Bobaru** and W. Hu, “The meaning, selection, and use of the peridynamic horizon and its

relation to crack branching in brittle materials”, *International Journal of Fracture*, **176**: 215–222 (2012).

[P13] W. Hu, Y.D. Ha, **F. Bobaru**, and S.A. Silling, “The formulation and computation of the nonlocal J-integral in bond-based peridynamics”, *International Journal of Fracture*, **176**: 195–206 (2012).

[P12]  W. Hu, YD. Ha, and **F. Bobaru**, “Peridynamic model for dynamic fracture in unidirectional fiber-reinforced composites”, *Computer Methods in Applied Mechanics and Engineering*, **217–220**: 247–261 (2012).  
see simulation movies in the Supplementary content at:  
<http://www.sciencedirect.com/science/article/pii/S0045782512000278>  
  
[P11] **F. Bobaru** and M. Duangpanya, “A Peridynamic Formulation for Transient Heat Conduction in Bodies with Evolving Discontinuities”, *Journal of Computational Physics*,**231**(7): 2764-2785(2012).  
  
[P10] Y.D. Ha and **F. Bobaru**, “Characteristics of dynamic brittle fracture captured with peridynamics”, *Engineering Fracture Mechanics*, **78**: 1156–1168 (2011).   
  
[P9] **F. Bobaru** and YD. Ha, “Adaptive refinement and multiscale modeling in 2D Peridynamics”, *International Journal for Multiscale Computational Engineering*, **9**(6): 635-659 (2011).  
[P8] **F. Bobaru**, “Peridynamics and Multiscale Modeling” Editorial in Special Issue on “Advances in Peridynamics”, *International Journal for Multiscale Computational Engineering*, **9**(6): vii-ix (2011).  
  
[P7] W. Hu, YD. Ha, and **F. Bobaru**. “Modeling Dynamic Fracture and Damage in Fiber-Reinforced Composites with Peridynamics”, *International Journal for Multiscale Computational Engineering*, **9**(6): 707–726 (2011).  
[P6] **F. Bobaru** and M. Duangpanya, “The peridynamic formulation for transient heat conduction,” *International Journal of Heat and Mass Transfer*, **53**(19-20): 4047-4059 (2010). doi:10.1016/j.ijheatmasstransfer.2010.05.024.  
  
[P5] YD. Ha and **F. Bobaru**, “Studies of dynamic crack propagation and crack branching with peridynamics,” *International Journal of Fracture*, **162**(1-2): 229-244 (2010). doi:10.1007/s10704-010-9442-4  
  
[P4] S. A. Silling, O. Weckner, E. Askari, and **F. Bobaru**, “Crack nucleation in a peridynamic solid,” *International Journal of Fracture*, **162**(1-2): 219-227 (2010). DOI: 10.1007/s10704-010-9447-z  
[P3] **F. Bobaru,** M. Yang, L.F. Alves, S.A. Silling, E. Askari, and J. Xu, “Convergence, adaptive refinement, and scaling in 1D peridynamics”, *International Journal for Numerical Methods in Engineering*, **77:** 852-877 (2009).  
[P2] **F. Bobaru**, “Influence of van der Waals forces on increasing the strength and toughness in dynamic fracture of nanofiber networks: a peridynamic approach”, *Modelling and Simulation in Materials Science and Engineering* **15**: 397-417 (2007).  
  
[P1] S.A. Silling and **F. Bobaru**, “Peridynamic modeling of membranes and fibers”, *International Journal of Non-Linear Mechanics*, **40**(2-3): 395-409 (2005).

Journal papers in press or in review:  
[R1] W. Hu, **F. Bobaru**, J. Yu, C-F Yen, Impact damage on a thin glass plate with polycarbonate backing.

**Conference papers:**  
[C6].  W. Hu, Y.D. Ha, and **F. Bobaru**, “Peridynamic models for dynamic fracture in an asymmetrically loaded unidirectional composite”, Proceedings of the Computational Structural Engineering Institute of Korea (COSEIK) Annual Conference, Seoul, April 12-13, Korea (2012).  
[C5]  **F. Bobaru**, and Y.D. Ha, Peridynamic modeling of dynamic brittle fracture in a multi-layered glass system", Proceedings of SAMPE 2012, Baltimore, May 22-24, USA (2012).   
[C4].  Y.D. Ha, and **F. Bobaru**, “Dynamic brittle fracture captured with peridynamics”, Proceedings of the ASME 2011 International Mechanical Engineering Congress & Exposition IMECE 2011, November 11-17, 2011, Denver, Colorado, USA (6pp), IMECE-65515 (2011).  
[C3].  E. Askari, **F. Bobaru**, R. B. Lehoucq, M. L. Parks, S. A. Silling, and O. Weckner, "Peridynamics for multiscale materials modeling," Scidac 2008. Journal of Physics: Conference Series, Vol. 125 (2008) 012078 (11pp). DOI: 10.1088/1742-6596/125/1/012078   
[C2].  **F. Bobaru**, S.A. Silling, and H. Jiang, “Peridynamic fracture and damage modelling of membranes and nanofiber networks”, Proceedings of the XI International Conference on Fracture, Turin, Italy, March 20-25, 5748, pp: 1-6 (2005).   
[C1].  **F. Bobaru** and S.A. Silling, “Peridynamic 3D models of nanofiber networks and carbon nanotube-reinforced composites”, in *Materials Processing and Design*: Proceedings of Numiform 2004, the 8th International Conference on Numerical Methods in Industrial Forming Processes, American Institute of Physics, pp:1565-1570 (2004).  
  
Unpublished:  
 [U1].  F. Bobaru and S.A. Silling, "Trans and inter-granular peridynamic fracture in polycrystalline ceramics" (2008)