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Books and Book Chapter:

- Jana, S.C., Du, L. "Highly-filled graphite-polymer composites: Synthesis, processing, and characterization." In Graphene and Graphene-Based Nanocomposites, Prithu Mukhopadhyay and Rakesh Gupta (Ed.), Taylor and Francis. In press.
- Jimenez, G.A., Lee, B.J., Jana, S.C., "Nanoparticles and Polymer Nanocomposites" Chapter 4 in Nanoscale Multifunctional Materials: Science and Applications, Sharmila Mukhopadhyay (Ed.), Wiley, ISBN: 978-0-470-50891-6, October 2011.
- Gunes, I.S., Jana, S.C., "Chemical and Engineering Aspects of Morphology Development and Processing of Multiphase Polymer Blend Nanocomposites" Chapter 8 in Encyclopedia of Polymer Blends, Volume 2, Avraam Isayev (Ed.), Wiley-VCH Publishers, ISBN: 978-3-527-31930-5, November 2011.
- Gunes, I.S., Jana, S.C., "Biomedical applications of shape memory polymers and their nanocomposites", in Polymeric Biomaterials, Vol II: Medicinal and Pharmaceutical Applications of Polymers, Dumitriu, S. (Ed.), CRC Press, 2010 (in review).
- Gunes, I.S., Jung. C.D., Jana, S.C., "Evolution of non-linear rheology and network formation during thermoplastic polyurethane polymerization and its relationship to reaction kinetics, phase separation, and mixing", Ch. 3 in "Non-linear Dynamics with Polymers", Pojman, J., Miyata, Q.T. (Ed)., 2009 (in press).
- Gunes, I. S., Jana, S.C., "Permeability and Water Uptake Actuation of Shape Memory Polyurethane Nanocomposites: Materials, Processing, Modeling, and Applications", pp. 41-72, Chapter 3 in *Barrier Properties of Polymer Clay Nanocomposites*, ISBN: 978-1-60876-021-3, V. Mittal (Ed), Nova Science Publishers, 2009
- Gunes, I.S., Jana, S.C., "Shape Memory Polymers and Their Nanocomposites" In: Kar KK, editor. *Advanced Composites*, Singapore: Pan Stanford Publishing, 2009 (Chapter 1) (in press)

- Jana, S.C., "Clay Nanocomposites Of Polyurethanes And Epoxies: Preparation Methods And Properties", Chapter 9 in *Processing and Properties of Nanocomposites*, ISBN 978-981-270-390-3, Advani, S.G. (Ed), World Scientific, Published December 2006.

Commissioned theme articles

Jana, S.C. The changing landscape of polymer research. Plastics Engineering, July/August 2017, 73 (3), 50-52. Published as a commissioned article to celebrate the 75th anniversary of the Society of Plastics Engineers.

Editorials

Our Journey, Our Future. Editorial. *Polym Eng Sci*. 2020;60:877–878, DOI: 10.1002/pen.25415

Our Journey, Our Future. Editorial. *Polymer Composites*. 2020;41:1699–1700, DOI: 10.1002/pc.25626.

Our Journey, Our Future. Editorial. *J Vinyl Addit Technol.* 2020;26:111–112, DOI: 10.1002/vnl.21772.

Publications in Refereed Journals

Google scholar citations~7301, h-index: 42 (as of December 7, 2020)

Top 10 cited articles:

Park, J.H., Jana, S.C., 2003 Mechanism of exfoliation of nanoclay particles in epoxy-clay nanocomposites. *Macromolecules*, **36**(8), 2758-2768. (**412 citations**)

Randall, J. P., Meador, M. A. B., Jana, S. C*. 2011 Tailoring mechanical properties of aerogels for aerospace applications. *ACS Appl. Mater. Interfaces,* 3, 613-626 (**360 citations**)

Park, J.H., Jana, S.C., 2003 The relationship between nano- and micro-structures and mechanical properties in PMMA-epoxy-nanoclay composites. *Polymer*, 44(7), 2091-2100. (**295 citations**)

Jana, S.C., Jain, S. 2001 Dispersion of nanofillers in high performance polymers using reactive solvents as processing aids. *Polymer*, **42**(16), 6897-6905. (**264 citations**)

Ottino, J.M., Muzzio, F.J., Tjahjadi, M., Franjione, J., Jana, S.C., Kusch, H.A. 1992 Chaos, symmetry, and self-similarity: exploiting order and disorder in mixing processes. *Science*, **257**, 754-760. (**236 citations**)

Gunes, I.S., Cao, F., Jimenez, G., Jana, S.C. 2008 Evaluation of nanoparticulate fillers for development of shape memory polymer nanocomposites. *Polymer*, 49, 2223–2234 (**233** citations)

Gunes, S., Jana, S.C., 2008 Shape memory polymers and their nanocomposites: A review of science and technology of new multifunctional materials. *J. Nanosci. Nanotech*. 8, 1616-1637. (**206 citations**)

Cao, F., Jana, S.C., 2007 Nanoclay-tethered shape memory polyurethane nanocomposites. Polymer, 48(13), 3790-3800. (**208 citations**)

Jana, S.C., Metcalfe, G., Ottino, J.M. 1994 Experimental and computational studies of mixing in complex Stokes flows: The vortex mixing flow and multicellular cavity flows. *Journal of Fluid Mechanics*, **269**, 199-246. (**200 citations**)

Pattanayak, A., Jana, S.C., 2005 Synthesis of thermoplastic polyurethane nanocomposites of reactive clay by bulk polymerization methods. *Polymer*, 46(10), 3275-3288. (**200 citations**)

Complete list of publications:

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with shape memory alloy inserts. *Mechanics Of Materials*, 131, 22-32. DOI: 10.1016/j.mechmat.2019.01.002.

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