

Mehrdad Kokabi, BSc, MSc, PhD

Research Interests:

Smart Nanocomposites

Publications

Recent International Conferences

Sirousazar M, Kokabi M., Hassan Z.M., Bahramian A.R., (2010), Dehydration Kinetics and Mechanism of Polyvinyl Alcohol Nanocomposite Hydrogel Containing Hydrophilic Na-Montmorillonite Nanoclay, Third Conference on Nanostructures, Kish Island, I.R. Iran, March 10-12.

Pashaei Soorbaghi F., Sharif Z., Bahramian A.R., Kokabi M., (2010), Corrosion Resistance of Ceramic Articles fabricated Form SiAlON Nanopowder, Third Conference on Nanostructures, Kish Island, I.R. Iran, March 10-12.

Sirousazar M., Kokabi M., Hassan Z.M., (2009), In vivo Investigation on PVA-clay Nanocomposite Hydrogel as Wound Dressing, International Conference on Nanoscience and Technology, Beijing, China, September 1-3.

Pashaei Sorbaghi F., Kokabi M., Ghafarlou S., Golbang A., (2009), Montmorillonite Modification by HTAB, XIV International Clay Conference- Castellaneta Marina- Italy, June 14-20.

Amirshaghaghi A., Kokabi M., Pashaei Sorbaghi F., (2009), The Production Mechanism of Al₂O₃-ZrO₂ Nanopowder Via Metal-Containing Polymer Precursors, Nanospain 2009, 9-12 March, Zaragoza, Spain.

Golbang A., Kokabi M., (2009),) Effect of Nanoclay on Extensibility and Recovery of Cross Linked Low Density Polyethylene Shape Memory Nanocomposites, Nanospain 2009, 9-12 March, Zaragoza, Spain.

Mokhtari M., Kokabi M., (2009), The Effect of Epoxidized Natural Rubber (ENR) on the Morphology and Curing Characteristics of Natural Rubber / Organoclay Nanocomposite Systems, Nanospain 2009, 9-12 March, Zaragoza, Spain.

Bahramian A.R., Kokabi M., Arapour F., (2009), Beta-sialon nanopowder synthesis from kaolinite/carbon black mixture, The Sixth China International Conference on High-Performance Ceramics, August 16-19, Harbin, China.

Amirshaghaghi A., Kokabi M., Arapour F., Bahramian A.R., (2009), The effect of various metal ions on idel time of ceramic gelcasting systems, The Sixth China International Conference on High-Performance Ceramics, August 16-19, Harbin, China.

Arapour F., Kokabi M., Saeed Mohammadi A., (2009), TheRheological behaviour Investigation of PEG- Al₂O₃ Mixtures, The Sixth China International Conference on High-Performance Ceramics, August 16-19, Harbin, China.

Paydayesh A., Kokabi M., Bahramian A.R., (2009), Intercalation of DMSO into Kaolinite; Comparison of Slow and Fast Methods, XIV International Clay Conference- Castellaneta Marina- Italy, June 14-20.

Pashaei Sorbaghi F., Kokabi M., Golbang A., Ghafarlou S., (2009), Comparison of Slow and Fast Methods in Montmorillonite Modification, XIV International Clay Conference- Castellaneta Marina- Italy, June 14-20.

Khanlari, S., Kokabi M., Morshed A., (2008), The effect of Organoclay on Fire Resistance of Nanocomposites

based on Natural Rubber, Poly Char16; World Forum on Advanced Materials, 17-21 February, World Unity Convection Centre, Lucknow, India.

Pashaei Sorbaghi F., Kokabi M., Nekoomanesh Haghghi M., (2008), Synthesis and Characterization of Poly (Glycidyle Nitrate) as an Energetic Polymer, Poly Char16; World Forum on Advanced Materials, 17-21 February, World Unity Convection Centre, Lucknow, India.

Amirshaghaghi A., Kokabi M., (2008), Al₂O₃- ZrO₂ Nanopowder Preparation by Polymer Gel-net at Low temperature, Poly Char16; World Forum on Advanced Materials, 17-21 February, World Unity Convection Centre, Lucknow, India.

Bahramian A.R., Kokabi M., Famili M.H.N., Beheshty M.H., (2008), Flammability of Kaolinite Layered Silica / Phenolic Resin/ Asbestos Cloth Nanocomposite, The 5th International Chemical Engineering Congress & Exhibition, 2-5 January, Kish Island, Iran.

Bahramian A.R., Kokabi M., Famili M.H.N., Beheshty M.H., (2008), Ablative Performanceof Resol/ Kaolinite Nanocomposite, The 5th International Chemical Engineering Congress & Exhibition, 2-5 January, Kish Island, Iran.

Bahramian A.R., Kokabi M., (2008), A Curing Kinetic Model of Montmorillonite Layered Silicate Nanocomposite, The 5th International Chemical Engineering Congress & Exhibition, 2-5 January, Kish Island, Iran.

Khanlari, S., Kokabi M., Morshedi A., (2008), The Effect of Organoclay on Curing Time of Elastomeric Nanocomposites based on NR, The 5th International Chemical Engineering Congress & Exhibition, 2-5 January, Kish Island, Iran.

Samani F., Kokabi M., (2008), Optimizing the Electrospinning Process Conditions to Produce Polyvinyl Alcohol Nanofibers, The 2nd Conference on Nanostructures (NS2008), March 11-14, Kish University, Kish Island, Iran.

Samani F., Kokabi M., (2008), "Electrospun PLGA/Organoclay Nanocomposite Scaffold; Morphology, Mechanical, and Structural Characteristics", 24th Annual Meeting of Polymer Processing Society (PPS24), June 15-19, Salerno, Italy.

Amirshaghaghi A., Kokabi M., (2008), Preparation of ZrO₂ Nanopowder by Polymer Gel Net at Low Temperature, The 2nd Conference on Nanostructures(NS2008), March 11-14, Kish University, Kish Island, Iran.

Bahramian A.R., Kokabi M., (2008), Thermal Diffusivity Mechanism of the High Performance Polymer Layered Silicate Nanocomposite Heat Shield, 18th European Conference on Thermophysical Properties, Pau, France, 31Aug. - 4 Sep.

Pashaei Sorbaghi F., Kokabi M., Nekoomanesh Haghghi M., (2008), Synthesis and Characterization of Glycidyl Nitrate, 15th Iranian seminar of organic chemistry, 27-29 August 2008, Kermanshah, Iran.

Pashaei Sorbaghi F., Kokabi M., Nekoomanesh Haghghi M., (2008), Synthesis of Poly (Glycidyl Nitrate) Energetic Polymer, 15th Iranian Seminar of Organic Chemistry, 27-29 August 2008, Kermanshah, Iran.

Amirshaghaghi A., Kokabi M., (2008), Yttria-Stabilized Zirconia (YSZ) Nanopowder Preparation by Polymer Gel-Net at Low Temperature, ICC2, Verona, Italy.

Amirshaghaghi A., Kokabi M., Yttria-Stabilized Zirconia (YSZ)/ Al₂O₃ Composite Nanopowder Preparation by Polymer Gel-Net at Low Temperature, 24th Annual Meeting of Polymer Processing Society (PPS24), June 15-19, Salerno, Italy.

Khanlari S., Kokabi M., (2008), Investigation the Thermal Stability of NR/ Organoclay Nanocomposite, 2nd International Congress on Nanoscience and Nanotechnology (ICNN2008), 28-30 October, University of Tabriz, Tabriz, Iran.

Paydayesh A., Kokabi M., Bahramian A.R., (2008), Purification and Surface Modification of Layered Silicate Kaolinite as Potential Nanofiller, 2nd International Congress on Nanoscience and Nanotechnology (ICNN2008), 28-30 October, University of Tabriz, Tabriz, Iran.

Mokhtari M., Kokabi M., Bahramian A.R., (2008), Study the Effect of Epoxide Natural Rubber on Morphology and Mechanical Properties of Natural Rubber/ Organoclay Nanocomposite Systems, 2nd International Congress on Nanoscience and Nanotechnology (ICNN2008), 28-30 October, University of Tabriz, Tabriz, Iran.

Bahramian A.R, Kokabi M., (2008), The Synthesis of SiAlON from Kaolinite and Carbon Black Nanopowder, 2nd International Congress on Nanoscience and Nanotechnology (ICNN2008), 28-30 October, University of Tabriz, Tabriz, Iran.

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Khanlari S., Kokabi M., (2008), Improving the Vertical Stiffness of Fiber Reinforced Seismic Isolator Using Nanocomposite Rubber Compound, 1st International Conference on Composites; Characterization, Fabrication and Application, (CCFA-1), December 15-18, Kish, Iran.

Rastegar O., Kokabi M., Razaghi Kashani M., (2008), The Effect of Nanoclay on the Morphology of Polymer/Bitumen Blend, The 1st International Bitumen Conference, Tehran, Iran.

Bahramian A.R., Kokabi M., Famili M.H.N., Beheshty M.H., (2007), Ablation mechanism of the high performance layered silicate resol type phenolic resin nanocomposite, The China International Conference on High-Performance Ceramics (CICC-5).

Bahramian A.R., Kokabi M., Famili M.H.N., Beheshty M.H., (2007), Thermal stability of phenolic resin layered silicate nanocomposites, The China International Conference on High-Performance Ceramics (CICC-5).

Bahramian A.R., Kokabi M., Famili M.H.N., Beheshty M.H., (2007), Resol/Kaolinite nanocomposite as an effective heat shield, 7th Iranian Seminar on Polymer Science and Technology (ISPST 2007), 23-25 October 2007, Tehran, Iran.

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Bahramian A.R., Kokabi M., Famili M.H.N., Beheshty M.H., (2007), Thermal stability of phenolic resin/montmorillonite nanocomposite, 7th Iranian Seminar on Polymer Science and Technology (ISPST 2007), 23-25 October 2007, Tehran, Iran.

Sirousazar, M., Kokabi M., Hassan Z.M., (2007), Temperature Dependency of water uptake properties of the poly vinyl alcohol/ clay nanocomposite hydrogels, 7th Iranian Seminar on Polymer Science and Technology (ISPST 2007), 23-25 October 2007, Tehran, Iran.

Dehghani-Ashkezari G., Aghakouchak A.A., Kokabi M., (2007), Design, Manufacturing and Evaluation of the Performance of Fiber Reinforced Elastomeric Seismic Isolators, 5th International Conference on Seismology and Earthquake Engineering, Tehran. Iran.

Khanlari, S., Kokabi M., Morshedi, A., (2007), The effect of Nanofiller on Improvement the Aging resistance of Elastomeric Compounds based on NR, 7th Iranian Seminar on Polymer Science and Technology (ISPST 2007), 23-25 October, Tehran, Iran.

Recent International ISI papers

Khanlari S., Dehghani-Ashkezari G., Kokabi M., Razzaghi-Kashani M., (2010), "Fiber Reinforced Nanocomposite Seismic Isolators: Design and Manufacturing", *Polymer Composites*, Vol.31 , Issue 2, 299-306, (DOI 10.1002/pc).

Samani F., Kokabi M., Soleimani M., Rezazadeh Valojerdi M., (2010) Fabrication and Characterization of Electrospun Fibrous Nanocomposite Scaffolds based on poly(lactide-co-glycolide)/poly(vinyl alcohol) blends, *Polymer International*, Vol.59, 1-9.

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Samani F., Kokabi M., Rezazadeh Valojerdi M., (2009), "Optimising the Electrospinning Process Conditions to Produce Polyvinyl Alcohol Nanofibers", *International Journal of Nanotechnology*, Vol.6, Nos.10/11, 1031-1040.

Sirousazar M., Kokabi M., Yari M., (2008), Mass Transfer During the Pre-Usage Dehydration of Polyvinyl Alcohol Hydrogel Wound Dressings, *Iranian Journal of Pharmaceutical Science*, 4(1) 51-56.

Dehghani Ashkezari, G., Aghakouchak, A. A., Kokabi, M., (2008), "Design, Manufacturing and Evaluation of the Performance of Steel like Fiber Reinforced Elastomeric Seismic Isolators", *Journal of Materials Processing Technology*, 197, 140-150.

Bahramian A.R., Kokabi M., Famili M.H.N., Beheshty M.H., (2008), "High temperature ablation of

kaolinite layered silicate nanocomposite, Journal of Hazardous Materials, 150, 136-145.

Razzaghi-Kashani M, Hassankhani, H., Kokabi M., (2008), "Improvement in Physical-Mechanical Properties of Butyl Rubber with Montmorillonite Organoclay", Iranian Polymer Journal, Vol.16, No. 10, 671-679.

Kokabi, M., Sirousazar, M., Hassan, Z. M., (2007), "PVA- Clay Nanocomposite Hydrogels for Wound Dressing", European polymer Journal, 43, 773-781.

Golmohammadi, M., Kokabi, M., Entezami, A. A., (2007), "Polyaniline Modified Montmorillonite Nanocomposite as an Actuator", e-Polymers, No. 012.

Mahmoodi, S. N., Khadem, S. N., Kokabi, M., (2007), "Non- Linear Free Vibrations of Kelvin-Voigt Visco-elastic Beams", International Journal of Mechanical Sciences, 49, 722-732.

Rezanejad, S., Kokabi, M., (2007), "Shape Memory and Mechanical Properties of Crosslinked Polyethylene/Clay Nanocomposites ", European Polymer Journal, Vol.43, Issue 7, 2856-2865.

Ghader S., Manteghian M., Kokabi M., Sarraf Mamoory R., (2007), "Induction Time of Reaction Crystallization of Silver Nanoparticles", Chem. Eng. Technol., 30, No. 8, 1-6.

Bahramian A.R., Kokabi M., Famili M.H.N., Beheshty M.H., (2007), "Thermal degradation process of resol type phenolic resin kaolinite layered silicate nanocomposite", Iranian Polymer Journal, Vol.16, No.6.

Mirzadeh, A., Kokabi, M., (2007), "The Effect of Composition and Draw Down Ratio on the Morphology and Oxygen Permeability of Polypropylene Nanocomposite Blown Film", European Polymer Journal, 43, 3757-3765.

Ghader S., Manteghian M., Kokabi M., Sarraf Mamoory R., (2007), "Preparation of Truncated Silver Nanoparticles by a Simple and Rapid Method in Aqueous Solution", Polish J. Chem., 81,

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