

Publications

1. Spectroscopic correlation of Mechanical properties of PVC/PMMA polymer blends
Gaurang Patel, M. B. Sureshkumar, N. L. Singh, S. S. Bhattacharya
Journal of International Academy of Physical Sciences Vol. 14 No.1 (2010) 91-100.
[ISSN 0974 - 9373]
2. Optical Characterization of PVC, PMMA and PVC/PMMA polymer blends
Gaurang Patel, M. B. Sureshkumar, Purvi Patel
Proceedings of International Conference on Recent Trends in Material Science and Technology, 2010, 3.61-3.64.
3. Improvement in Mechanical Properties of PMMA Polymer due to the Doping of TiO₂
Gaurang Patel, M. B. Sureshkumar, N. L. Singh
Proceedings of DAE-BRNS 3rd International Symposium on Materials Chemistry 2010
ISBN No.: 81-88513-40-7, 527.
4. An Optical Characterization of PVA/PAM Polymer Blend
Gaurang Patel, M. B. Sureshkumar
AIP Conf. Proc. 1349, 166-167 (2011). [doi: 10.1063/1.3605788]
5. Structural, Optical and Mechanical properties of PVC/PMMA Polymer Blend by Spectroscopic Techniques
Gaurang Patel, M. B. Sureshkumar
AIP Conf. Proc. 1391 (2011), 645-648. [doi: 10.1063/1.3643636]
6. Effect of TiO₂ on Optical Properties of PMMA: An Optical Characterization
Gaurang Patel, M. B. Sureshkumar, Purvi Patel
Advanced Materials Research, Vols. 383-390 (2012), 3249-3256.
[doi:10.4028/www.scientific.net/AMR.383-390.3249]

7. Investigation of Structural, Thermal and Mechanical properties of PMMA/TiO₂ composites: A Comparative study
Gaurang Patel, M. B. Sureshkumar
National Journal of Applied Sciences and Engineering, Vol. 1/Issue 2/July-Sept. 2012, 50-59. [ISSN 2278-0734]
8. Study of Blends of Poly acrylamide(PAM) and Poly Ethylene Oxide(PEO) by FTIR Spectroscopy
Gaurang Patel, M. B. Sureshkumar, Purvi Patel
 Proceedings of 4th International Conference on Perspective in Vibrational spectroscopy (ICOPVS-2013), August 2013, 291-292. ISBN No: 978-93-82880-54-7.
9. Preparation of PAM/PVA blending films by solution-cast technique and its characterization: a spectroscopic study
Gaurang Patel, M. B. Sureshkumar
Iranian Polymer Journal, 2013, DOI 10.1007/s13726-013-0211-x
10. Preparation Of Pam/Peo Blends Films And Its Characterizations: A Spectroscopic Investigation
Gaurang Patel, M. B. Sureshkumar
 Under review **Polymer Express Journal**

Presented Papers

Presented Paper

1. Spectroscopic correlation of Mechanical properties of PVC/PMMA polymer blends
Gaurang Patel, M. B. Sureshkumar, N. L. Singh, S. S. Bhattacharya
 11th International Conference of the International Academy of Physical Sciences (CONIAPS XI)
 University of Allahabad, Allahabad, India, Feb 2010
2. Effect of TiO₂ on Optical Properties of PMMA: An Optical Characterization

Gaurang Patel, M. B. Sureshkumar, Purvi Patel

International conference on Manufacturing of Science and Technology (ICMST-2010)

Kuala Lumpur, Malaysia, Nov 2010

3. Optical Characterization of PVC, PMMA and PVC/PMMA polymer blends

Gaurang Patel, M. B. Sureshkumar, Purvi Patel

International conference on Recent Trends in Material Science and Technology (ICMST-2010), Indian Institute of Space Science and Technology, Thiruvananthapuram, India, Oct 2010.

4. An Optical Characterization of PVA/PAM Polymer Blend

Gaurang Patel, M. B. Sureshkumar

55th DAE Solid State Physics Symposium-2010 (SSPS-10)

By BRNS and DAE of Govt. of INDIA, Manipal University, Manipal, Dec 2010

5. Improvement in Mechanical Properties of PMMA Polymer due to the Doping of TiO₂

Gaurang Patel, M. B. Sureshkumar, N. L. Singh

International Symposium of Material Chemistry (ISMC-2010)

Bhabha Atomic Research Centre (BARC), Mumbai, India, Dec 2010

6. Interaction between Polyacrylamide (PAM) and Polyvinyl alcohol (PVA) in Blends system: An FTIR Study

Gaurang Patel, M. B. Sureshkumar, Purvi Patel

Presented in ICMAT-2011 Symposium on Membrane Materials And Technologies for Emerging Applications at Singapore in June 2011.

7. Investigation of Structural, Thermal and Mechanical Properties of PMMA/TiO₂

Composites: A Comparative Study

Gaurang Patel, M. B. Sureshkumar, Purvi Patel

Presented in ICMAT-2011 Symposium on Solution Processing Technology for Inorganic Films, Nanostructures and Functional Materials at Singapore in June 2011.

8. Estimation of Optical Band Gap Energy and carbonaceous Cluster in Polymer Blend of Poly Acrylamide (PAM) and Poly Ethylene Oxide (PEO)

Gaurang Patel, M. B. Sureshkumar

3rd International Multi-component Polymer Conference (IMPC-2012)

M G University, Kottayam, Kerala, India, March 2012

9. A Study of Photoluminescence Spectra of PMMA/TiO₂ Polymer Composites

Gaurang Patel, M. B. Sureshkumar

Seminar on Preparation and Characterization of Crystalline and Non-Crystalline Solids

Organized at Department of Physics, The M. S. University of Baroda, Vadodara,

Nov. 2012.

10. Study of Blends of Poly acrylamide(PAM) and Poly Ethylene Oxide(PEO) by FTIR Spectroscopy

Gaurang Patel, M. B. Sureshkumar, Purvi Patel

Presented at 4th International Conference on Perspective in Vibrational spectroscopy

(ICOPVS- 2013). Bishop Moore College, Mavelikara, Kerala, India, August 2013