

## **LIST OF PUBLICATIONS:**

### **In Journals:**

- 1) The Consequence of  $\text{LiCF}_3\text{SO}_3$  Concentrations and Swift Heavy  $\text{O}^{7+}$  Ion Irradiation on Thermal, Electrical and Relaxation Properties of  $[\text{PVA}_{(47)}\text{-PEO}_{(47)}\text{-EC}_{(6)}\text{-LiCF}_3\text{SO}_{3(x)}]$  Blend Electrolyte System  
**Prajakta Joge**, D.K. Kanchan<sup>\*</sup>, Poonam Sharma, Manish Jayswal, D.K. Awasthi  
*Invertis Journal of Science and Technology 10 (2) (2017) 77-85.*
- 2) Influence of Nano-filler Concentration on Transport Properties of PVA-PEO Blend Systems  
**Prajakta Joge**, D.K. Kanchan<sup>\*</sup>  
*Advanced Materials Research 1141 (2016) 19-23.*
- 3) Influence of Swift Heavy  $\text{O}^{7+}$  Ion Irradiation on Conductivity and Relaxation Dynamics of Two Different Blends of PVA:PEO: $\text{LiCF}_3\text{SO}_3$ :EC System  
**Prajakta Joge**, D.K. Kanchan<sup>\*</sup>, Poonam Sharma, Manish Jayswal, D.K. Awasthi  
*Advanced Materials Research 1141 (2016) 96-102.*
- 4) Effect of Swift Heavy  $\text{O}^{7+}$  Ion Radiations on Conductivity of Lithium Based Polymer Blend Electrolyte  
**Prajakta Joge**, D.K. Kanchan<sup>\*</sup>, Poonam Sharma, Manish Jayswal, D.K. Awasthi  
*Radiation Physics and Chemistry 100 (2014) 74-79.*
- 5) Effect of  $\text{Al}_2\text{O}_3$  Concentration on Conductivity and Relaxation Properties of Two Different PVA-PEO Blend Systems: A Comparative Study  
**Prajakta Joge**, D.K. Kanchan<sup>\*</sup>, Poonam Sharma, Nirali Gondaliya  
*IOSR Journal of Applied Physics (IOSR-JAP)e-ISSN: 2278-4861 (2014) 55-58.*
- 6) Effect of nano filler on electrical properties of PVA-PEO blend polymer electrolyte  
**Prajakta Joge**, D.K. Kanchan<sup>\*</sup>, Poonam Sharma, Nirali Gondaliya  
*Indian Journal of Pure & Applied Physics 51 (2013) 350-353.*
- 7) Conductivity Studies on Filler Free and Filler Doped PVA-PEO Based Blend Polymer Electrolytes  
**Prajakta Joge**, D.K. Kanchan<sup>\*</sup>, Poonam Sharma, Nirali Gondaliya  
*Advanced Materials and Research 665 (2013) 227-232.*
- 8) Influence of Nano Filler on Conductivity in PEO-PMMA- $\text{AgNO}_3$  Polymer Blend  
Poonam Sharma, D.K. Kanchan<sup>\*</sup>, Nirali Gondaliya, Manish Jayswal, **Prajakta Joge**  
*Indian Journal of Pure & Applied Physics 51 (2013) 346-349.*

- 9) Effect of Silicone Dioxide and Poly(Ethylene Glycol) on the Conductivity and Relaxation Dynamics of Poly(Ethylene Oxide)-Silver Triflate Solid Polymer Electrolyte  
Nirali Gondaliya, D.K. Kanchan\*, Poonam sharma, **Prajakta Joge**  
*Journal of Applied Polymer Science* 125 (2012) 1513-1520.
- 10) Structural and Conductivity Studies of Poly(ethylene oxide)-Silver Triflate Polymer Electrolyte System  
Nirali Gondaliya, D.K. Kanchan\*, Poonam Sharma, **Prajakta Joge**  
*Materials Science and Applications* 2 (2011) 1639-1643.

### **As Proceedings:**

- 1) Influence of Al<sub>2</sub>O<sub>3</sub> nano-filler on dielectric properties and conductivity of two different PVA-PEO blend systems  
**Prajakta Joge**, D.K. Kanchan\*, Gargi Dave  
*AIP Conf. Proc.* 1665 (2015) 050175-1–050175-3; doi: 10.1063/1.4917816.  
© 2015 AIP Publishing LLC 978-0-7354-1310-8/\$30.00
- 2) Effect of Al<sub>2</sub>O<sub>3</sub> on crystallinity and conductivity of PVA-PEO-EC-LiCF<sub>3</sub>SO<sub>3</sub> blend electrolyte system  
**Prajakta Joge**, D.K. Kanchan\*, Poonam Sharma  
*AIP Conf. Proc.* 1591 (2014) 356-357; doi: 10.1063/1.4872600.  
© 2014 AIP Publishing LLC 978-0-7354-1225-5/\$30.00
- 3) Conductivity enhancement in PVA-PEO-EC-LiCF<sub>3</sub>SO<sub>3</sub> blends upon swift heavy O<sup>7+</sup> ion irradiation  
**Prajakta Joge**, D.K. Kanchan\*, Poonam Sharma, Manish Jayswal, D.K. Awasthi  
*AIP Conf. Proc.* 1591, 756-758 (2014); doi: 10.1063/1.4872745.  
© 2014 AIP Publishing LLC 978-0-7354-1225-5/\$30.00.
- 4) A Comparative Study of Conductivity and Relaxation in Plasticized PVA-PEO Nano-Composites  
**Prajakta Joge**, D.K. Kanchan\*, Poonam Sharma  
*Crystalline and Non Crystalline Solids: Preparation and Characterization*  
© 2014 Narosa Publishing House, New Delhi
- 5) Effect of Swift Heavy Ion Irradiation on Conductivity and Relaxation Time in PVA-PEO-EC-LiCF<sub>3</sub>SO<sub>3</sub> Blends  
**Prajakta Joge**, D.K. Kanchan\*, Poonam Sharma, Manish Jayswal, Nirali Gondaliya, D.K. Awasthi

*AIP Conf. Proc. 1512 (2013) 502-503; doi: 10.1063/1.4791131.*

© 2013 American Institute of Physics 978-0-7354-1133-3/\$30.00

6) Effect of EC & LiCF<sub>3</sub>SO<sub>3</sub> on Conductivity and Relaxation in PVA-PEO Blends

**Prajakta Joge**, D.K. Kanchan<sup>\*</sup>, Poonam Sharma, Nirali Gondaliya

*AIP Conf. Proc. 1512 (2013) 506-507; doi: 10.1063/1.4791133.*

© 2013 American Institute of Physics 978-0-7354-1133-3/\$30.00

7) Dielectric Properties of PVA-PEO Polymer Blend Films

**Prajakta Joge**, D.K. Kanchan<sup>\*</sup>, Nirali Gondaliya, Poonam Sharma

*Solid State Nuclear Track Detectors and Their Applications*

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8) Conductivity Studies in Blended Plasticized PEO-PMMA Nano-Composites Electrolyte System

Poonam Sharma, D.K. Kanchan<sup>\*</sup>, Nirali Gondaliya, Manish S. Jayswal, **Prajakta Joge**

*Solid State Nuclear Track Detectors and Their Applications*

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9) Effect of Al<sub>2</sub>O<sub>3</sub> on Conductivity of PEO based Nano Composite Polymer Electrolyte

Nirali Gondaliya, D.K. Kanchan<sup>\*</sup>, Poonam Sharma, Meenakshi Pant, Manish S. Jayswal,

**Prajakta Joge**

*Solid State Nuclear Track Detectors and Their Applications*

© 2013 Narosa Publishing House, New Delhi

10) Characterization Studies of Plasticized PEO-PMMA Nano-Composite Polymer Electrolyte System

Poonam Sharma, D.K. Kanchan<sup>\*</sup>, Nirali Gondaliya, Meenakshi Pant, Manish S. Jayswal,

**Prajakta Joge**

*AIP Conf. Proc. 1447 (2012) 241-242; doi: 10.1063/1.4709969.*

© 2012 American Institute of Physics 978-0-7354-1044-2/\$30.00

11) Effect of Al<sub>2</sub>O<sub>3</sub> and PEG on Relaxation time in PEO-LiCF<sub>3</sub>SO<sub>3</sub> Polymer Electrolytes

Nirali Gondaliya, D.K. Kanchan<sup>\*</sup>, Poonam Sharma, Manish S. Jayswal, **Prajakta Joge**

*AIP Conf. Proc. 1447 (2012) 247-248; doi: 10.1063/1.4709972.*

© 2012 American Institute of Physics 978-0-7354-1044-2/\$30.00

12) Conductivity Studies in PVA-PEO-PEG Blended Polymer Films Complexed with Silver Salt

**Prajakta Joge**, D.K. Kanchan<sup>\*</sup>, Poonam Sharma, Nirali Gondaliya

*AIP Conf. Proc. 1349 (2011) 1053-1054; doi: 10.1063/1.3606224.*

© 2011 American Institute of Physics 978-0-7354-0905-7/\$30.00

13) Conductivity studies in PVA-AgNO<sub>3</sub> polymer electrolyte

Poonam Sharma, D.K. Kanchan<sup>\*</sup>, **Prajakta Joge**, Nirali Gondaliya, Meenakshi Pant  
Proceedings of the 54<sup>th</sup> DAE Solid State Physics Symposium, 2009.

**Other Additional Papers Presented in Conferences/Symposiums:**

- 1) Effect of O<sup>7+</sup> Ion Radiations on Conductivity and Dielectric Properties of PVA-PEO-(EC)<sub>x</sub>-LiCF<sub>3</sub>SO<sub>3</sub> Blend Polymer Electrolytes  
**Prajakta Joge**, D.K. Kanchan<sup>\*</sup>, Poonam Sharma, Manish Jayswal, D.K. Awasthi  
3<sup>rd</sup> National Conference on Advanced Materials and Radiation Physics (AMRP-2013),  
22-23 November, 2013.
- 2) O<sup>7+</sup> Ion Radiation Effect on Conductivity and Relaxation Properties of PVA-PEO-EC-(LiCF<sub>3</sub>SO<sub>3</sub>)<sub>x</sub> Blend Polymer Electrolytes  
**Prajakta Joge**, D.K. Kanchan<sup>\*</sup>, Poonam Sharma, Manish Jayswal, D.K. Awasthi  
3<sup>rd</sup> National Conference on Advanced Materials and Radiation Physics (AMRP-2013),  
22-23 November, 2013.
- 3) Relaxation Dynamics of PVA-PEO Polymer Blend Electrolyte Films  
**Prajakta Joge**, D.K. Kanchan<sup>\*</sup>, Poonam Sharma, Nirali Gondaliya  
National Symposium on Advances in Materials Science and Technology (AMST-2012),  
3-4 February, 2012.
- 4) Conductivity and IR Studies on PVA-PEO Blends  
**Prajakta Joge**, D.K. Kanchan<sup>\*</sup>, Poonam Sharma, Nirali Gondaliya  
National Conference on Physics for Tomorrow: Advancement in Energy, Environmental Sciences, Material Science & Biophysics, 3-4 March, 2011.
- 5) Influence of Plasticizer PEG on Modulus and Relaxation Dynamics of Nano Composite Polymer Electrolytes  
Nirali Gondaliya, D.K. Kanchan<sup>\*</sup>, Poonam Sharma, Meenakshi Pant, Manish S. Jayswal,  
**Prajakta Joge**  
10<sup>th</sup> National Conference on Solid State Ionics (NCSSI-10), 22-24 December, 2013.
- 6) Conductivity Studies in PEO-PMMA-AgNO<sub>3</sub> Plasticized Polymer Blends  
Poonam Sharma, D.K. Kanchan<sup>\*</sup>, N. Gondaliya, M. Pant, M. S. Jayswal, **Prajakta Joge**  
National Conference on Recent Trend in Material Science, 8-10 October, 2011.
- 7) Conductivity Studies on Plasticized PEG-PEO-AgCF<sub>3</sub>SO<sub>3</sub>-SiO<sub>2</sub> Nano Composite Polymer Electrolytes  
N. Gondaliya, D.K. Kanchan<sup>\*</sup>, Poonam Sharma, M. Pant, M. S. Jayswal, **Prajakta Joge**

National Conference on Recent Trend in Material Science, 8-10 October, 2011.

- 8) Electrical Conductivity Studies in PEO-PMMA-AgNO<sub>3</sub> Polymer Blend with Nano Filler Al<sub>2</sub>O<sub>3</sub>  
Poonam Sharma, D.K. Kanchan<sup>\*</sup>, N. Gondaliya, M. Pant, M. S. Jayswal, **Prajakta Joge**  
National Conference on Solid State Ionics, 15-17 December, 2011.
- 9) FTIR Studies of SiO<sub>2</sub> Doped PEO-AgCF<sub>3</sub>SO<sub>3</sub> Composite Polymer Electrolyte  
N. Gondaliya, D.K. Kanchan<sup>\*</sup>, Poonam Sharma, M. S. Jayswal, **Prajakta Joge**  
National Conference on Solid State Ionics, 15-17 December, 2011.
- 10) AC Conductivity Studies of Plasticized Polymer Blend Nano-Composite  
Poonam Sharma, D.K. Kanchan<sup>\*</sup>, N. Gondaliya, M. Pant, M. S. Jayswal, **Prajakta Joge**  
14<sup>th</sup> International Conference of International Academy of Physical Sciences (CONIAPS XIV)  
22-24 December, 2011.
- 11) Dielectric and Conductivity in PEO-AgCF<sub>3</sub>SO<sub>3</sub>-Al<sub>2</sub>O<sub>3</sub>-PEG Plasticized Nano-Composite  
Polymer Electrolyte  
N. Gondaliya, D.K. Kanchan<sup>\*</sup>, Poonam Sharma, M. Pant, M. S. Jayswal, **Prajakta Joge**  
14<sup>th</sup> International Conference of International Academy of Physical Sciences (CONIAPS XIV),  
22-24 December, 2011.
- 12) Effect of Plasticizer in PEO-AgCF<sub>3</sub>SO<sub>3</sub>-SiO<sub>2</sub> Nano-Composite Polymer Electrolyte  
N. Gondaliya, D.K. Kanchan<sup>\*</sup>, Poonam Sharma, M. Pant, M. S. Jayswal, **Prajakta Joge**  
14<sup>th</sup> International Conference of International Academy of Physical Sciences (CONIAPS XIV),  
22-24 December, 2011.