

Personal:

Date of Birth: April 20, 1971

Marital Status: Married with 1 son

Publication List: Published/Accept (Total 200)

In International Refereed Journal (190)

In International Conference Proceeding (03)

Book Chapters (07)

Publication in International Refereed Journals

Year 2002

1. Nanocrystalline ZnS dispersed in polymer electrolyte (PEO:NH₄I): Preparation and Electrical Conductivity Measurements.
P. K. Singh, Rana Pratap and Amreesh Chandra
Prog. Crystal Growth & Charact. of Mat. 44 (2002) 175-182. (*SCI, Impact Factor 3.147*)
2. Polymer Electrolyte Composites with dispersed Semiconductors.
P. K. Singh, S. Chandra and A. Chandra
J. Mat. Sci. Letters 21 (2002) 1393-1395. (*SCI, Impact Factor 2.993*) On 2004 -1- 1 this journal was merged into Journal of Materials Science
3. Semiconductor-dispersed polymer electrolyte composites.
A. Chandra, **P. K. Singh** and S. Chandra
Solid State Ionics 154-155 (2002) 15-20. (*SCI, Impact Factor 2.886*)
4. Ion conducting polymer electrolyte composites dispersed with ferroelectric Ba_{0.70}Sr_{0.30}TiO₃ ceramic powder.
P. K. Singh, and A. Chandra
Natl Acad Sci Lett 25 (2002) 286-293. (*SCI, Imp.. Factor 0.331*)

Year 2003

5. Role of the dielectric constant of ferroelectric ceramic in enhancing the ionic conductivity of polymer electrolyte composite.
Pramod Kumar Singh and A. Chandra
J. Phys. D: Appl. Phys. 36 (2003) L93-L96. (*SCI, Impact Factor 2.829*)

Year 2006

6. Thermal and Electrical Transport in ionic conductors : A correlation
S.Chandra, S.B.Rai, **Pramod K. Singh** , K.Kumar, A.Chandra
Solid State Ionics 177 (2006) 1613-1617. (*SCI, Impact Factor 2.886*)
7. On the correlation between thermal diffusivity and electrical conductivity in ionic conductors.
S.Chandra, S. B. Rai, **Pramod K. Singh**, Kaushal Kumar and A. Chandra
J. Phys.D:Appl. Phys. 39 (2006) 3680-3683. (*SCI, Impact Factor 2.829*)
8. Ionic noise measurement in polymer electrolytes.
A. Chandra, D.P. Singh, **P.K. Singh**, N. Khare and S.Chandra
Ionics 12 (2006) 349-352. (*SCI, Impact Factor 2.289*)
9. Polymer Electrolyte with Ionic Liquid for DSSC Application.
Pramod K. Singh, K.I. Kim, J.W. Lee and H.-W. Rhee
Phys. Stat. Sol.A, 203 (2006) R88-R90. (*SCI, Impact Factor 1.77*)

Year 2007

10. Dye Sensitized Solar Cell using Polymer Electrolytes based on Poly(ethylene oxide) with an Ionic Liquid.
Pramod K. Singh, K.I. Kim, N.G. Park and H.-W. Rhee
Macromolecular Symposia, 249-250 (2007) 162-166.

Year 2008

11. Mesoporous nanocrystalline TiO₂ electrode with ionic liquid based solid polymer electrolyte for dye sensitized solar cell application.

Pramod K. Singh, K.W. Kim, N.G. Park and H.-W. Rhee
Synthetic Metals, 158 (2008) 590-593. (*SCI, Impact Factor 2.870*)

12. Nanocrystalline porous TiO₂ electrode with ionic liquid impregnated solid polymer electrolyte for Dye sensitized solar cells.

Pramod K. Singh, K.W. Kim, K.I. Kim, N.G. Park and H.-W. Rhee
J Nanosci Nanotechnol. 8 (2008) 5271-4. (*SCI, Impact Factor 1.093*)

13. Electrical, optical and photoelectrochemical studies on a PEO-polymer electrolyte doped with low viscosity ionic liquid.

Pramod K. Singh, K.W. Kim and H.-W. Rhee
Electrochemistry Communications 10 (2008) 1769-1772 (*SCI, Impact Factor 4.197*)

Year 2009

14. Ionic liquid (1-methyl 3-propyl imidazolium iodide) with polymer electrolyte for DSSC application.

Pramod K. Singh, K.W. Kim and H.-W. Rhee
Polym. Eng. Sci. 49 (2009) 862-865 (*SCI, Impact Factor 1.920*)

15. Preparation, characterization and application of ionic liquid doped solid polymer electrolyte membranes.

Pramod K. Singh, Kang-Wook Kim, R. K. Nagarale and Hee-Woo Rhee
J.Phys. D:Appl. Phys. 42 (2009) 125101-125104 (*SCI, Impact Factor 2.829*)

16. Quantum dot doped solid polymer electrolyte for device application.

Pramod K. Singh, Kang-Wook Kim and Hee-Woo Rhee
Electrochemistry Communications 11 (2009) 1247-1250 (*SCI, Impact Factor 4.197*)

17. Development and characterization of ionic liquid doped thin solid polymer electrolyte membranes for better efficiency.

Pramod K. Singh, K.W. Kim and H.-W. Rhee
Synthetic Metals 159 (2009) 1538-1541 (*SCI, Impact Factor 2.870*)

Year 2010

18. Synthesis, characterization and application of biopolymer-ionic liquid composite material

Pramod K. Singh, B. Bhattacharya, R. K. Nagarale, K.-W. Kim and H.-W Rhee
Synthetic Metals 160 (2010) 139-142. (*SCI, Impact Factor 2.870*)

19. Ternary semiconductor nanoparticles embedded in polymer matrix: preparation and characterization.

Pramod K. Singh, S.K. Tomar, R.K. Nagarale and H.W. Rhee
Journal of Thermoplastic Composite Materials 23 (2010) 227-237. (*SCI, Imp.Fac. 1.343*)

20. Effect of sodium-mixed anion doping in PEO-based polymer electrolytes.

B. Bhattacharya, R. K. Nagarale and **Pramod K. Singh**
High Performance Polymers 22 (2010) 498-512. (*SCI, Impact Factor 1.584*)

21. Ionic liquid doped Poly (N-methyl 4-vinylpyridine iodide) Solid Polymer Electrolyte for Dye sensitized solar cell.

Pramod K. Singh, B. Bhattacharya, R. K. Nagarale, S P Pandey, K. W Kim and H.-W. Rhee
Synthetic Metals 160 (2010) 950-954. (*SCI, Impact Factor 2.870*)

22. Application of Ionic Liquid Doped Solid Polymer Electrolyte

Pramod K. Singh, Nitin A Jadhav, S. K. Mishra, U. P. Singh and B. Bhattacharya
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23. Effect of nano TiO₂ dispersion on PEO polymer electrolyte property

Pramod K. Singh, B. Bhattacharya and R.K. Nagarale
Journal of Applied Polymer Science 118 (2010) 2976-2980. (*SCI, Impact Factor 2.188*)

24. Importance of ionic liquid doped solid polymer (PVPI) electrolyte

Pramod K. Singh
International Journal of Sustainable Energy 30 (2010) 270

25. Progress in Ionic Organic-Inorganic Composite Membranes For Fuel Cell Applications (**Review Article**)

R. K. Nagarale, Woon-Sup Shin, **Pramod K. Singh**

Polym. Chem., 1 (2010) 388-408. (SCI, Impact Factor 4.760)

Year 2011

26. Plasticizer doped ionic liquid incorporated solid polymer electrolytes for photovoltaic application.
Pramod K. Singh, B. Bhattacharya, R.M. Mehra and Hee-Woo Rhee
Current Applied Physics 11 (2011) 616 (SCI, Impact Factor 2.010)
27. PEO-Based Polymer Electrolytes: A Novel Material for Dye sensitized solar cell
Pramod K. Singh, S. K. Tomar and Bhaskar Bhattacharya
Invertis Journal of Science & Technology 1 (2011) 91-102
28. Comparative Study of Nano CdS Prepared in Methanolic Solution and Polymer Electrolyte Matrix
Pawan Kumar, **Pramod K. Singh** and Bhaskar Bhattacharya
Ionics 17 (2011) 721-725. (SCI, Impact Factor 2.289)
29. Synthesis and Electrochemical Study of Functional Ionic Polymer
R. K. Nagarale, Bhaskar Bhattacharya, Nitin A. Jadhav and **Pramod K. Singh**
Macromol. Chem.Phys 212 (2011) 1751-1757 (SCI, Impact Factor 2.622)
30. Present status of solid state photoelectrochemical solar cell and dye sensitized solar cell using PEO-based polymer electrolytes (**Review Article**)
Pramod K. Singh, R. K. Nagarale, S. P. Pandey, H W Rhee and B. Bhattacharya
Advances in Natural Sciences: Nanoscience and Nanotechnology, 2 (2011) 023002-15
31. PbS-Nanoparticles Embedded in Polymer Matrix: Preparation and Characterization
Pramod K. Singh, S.K. Tomar, B. Bhattacharya
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32. Preparation, characterization and application of Nano CdS doped with Alum composite electrolyte
Pramod K. Singh, Pawan Kumar, T. Seth, Hee-Woo Rhee and B. Bhattacharya
Journal of Physics and Chemistry of Solids 73 (2012) 1159–1163 (SCI, Imp. Factor 2.752)
33. Porous nanocrystalline TiO₂ electrode and poly (N-methyl 4-vinylpyridine iodide) – ionic liquid solid polymer electrolyte for device application.
B. Bhattacharya, S. K. Tomar, S. P. Pandey, R. K. Nagarale and **Pramod K. Singh**
Int. J. Nanotechnol, 9 (2012) 1030-1039. (SCI, Impact Factor 0.578)

Year 2013

34. Detection of Banana bunchy top virus using impedance spectroscopy
Shahana Majumder, B. Bhattacharya, **Pramod K Singh**, S. Johari
Sensor Letters, 11 (2013) 2055-2059 (SCI, Impact Factor 0.55)
35. Novel Biopolymer Gel Electrolyte for Dye-Sensitized Solar Cell Application
Rahul Singh, N.A. Jadhav, S.Majmuder, B.Bhattacharya and **Pramod K. Singh**
Carbohydrate Polymers 91(2013) 682-685(SCI, Impact Factor 6.044)
36. A New Composite Polymer Electrolyte for Electrochemical Applications
Manjeet Singh, Vivek Kr. Singh, Karan Surana, B. Bhattacharya, **Pramod K. Singh** and Hee Woo Rhee
Journal of Industrial & Engineering Chemistry 19 (2013) 819-822 (SCI, Imp. Factor 4.841)
37. Effect of PMMA dispersion in Polyethylene oxide complexed with NH₄ClO₄ polymer electrolyte
Pramod K. Singh and B. Bhattacharya
Optoelectronics and Advanced Materials-Rapid Communications 7 (2013)157-160 (SCI, Impact Factor 0.452)
38. Synthesis, characterization and sensing application of a solid alum/flyash composite electrolyte
Amit Sachdeva, Roja Singh, **Pramod K. Singh**, B. Bhattacharya
Materiali in tehnologije 47 (2013) 468-471 (SCI, Impact Factor 0.714)
39. Structural, optical and electrical studies on Si-doped polymer electrolyte composite
Amit Saxena, **Pramod K. Singh**, B. Bhattacharya
Materiali in tehnologije 47 (2013) 799-802 (SCI, Impact Factor 0.714)

40. Poly(vinyl alcohol) doped with Ammonium Iodide solid polymer electrolyte: Preparation, characterization and application
Vivek K. Singh, A. Annu, Upasana Singh, Prabhakar Singh, Bhaskar Bhattacharya, **Pramod K. Singh**
Journal of Optoelectronics and Advanced Materials, 9-10 (2013) 927-931 (*SCI, Impact Fact. 0.58*)
41. Electrostatic model of semiconductor model of semiconductor nano-particles trapped in polymer electrolytes.
Divya Singh, Nitin A. Jadhav and **Pramod K. Singh** and Bhaskar Bhattacharya
Bulletin of Material Science 36 (2013) 977-980 (*SCI, Imp. Fac. 1.246*)

Year 2014

42. Effect of variation of average pore size and specific surface area of ZnO Electrode (WE) on Efficiency of Dye sensitized Solar Cells
N. A. Jadhav, **Pramod K. Singh**, Hee Woo Rhee, and B. Bhattacharya
Nanoscale Research Letters, 9 (2014) 575-583. (*SCI, Impact Factor 3.44*)
43. Effect of Structure Texture and Morphology Modulation on Efficiency of Dye sensitized Solar Cells
N. A. Jadhav, **Pramod K. Singh**, Hee Woo Rhee, S. P. Pandey and B. Bhattacharya
Int. J. Electrochem. Sci., 9 (2014) 5377- 5388. (*SCI, Impact Factor 1.284*)
44. Synthesis of Lead Sulphide Nanoparticles for Electrode Application of Dye Sensitized Solar Cells
Roja Singh, S. K. Tomar, P. Shukla, S.P. Pandey and B. Bhattacharya, **Pramod K Singh**
Nanosci. Nanotechnol. Lett. 6 (2014) 31-36 (*SCI, Impact Factor 2.917*)
45. New Biodegradable Polymer Electrolyte for Dye Sensitized Solar Cell
Rahul Singh, B. Bhattacharya, Hee Woo Rhee, **Pramod K Singh**
Int. J. Electrochem. Sci., 9 (2014) 2620 - 2630 (*SCI, Impact Factor 1.284*)
46. Multiwall Carbon Nanotube Doped Ion Conducting Polymer Electrolyte for Electrochemical Application
Hima Saxena, B. Bhattacharya, N A. Jadhav, S. Shukla, M. Dubey, Vivek Kr. Singh, **Pramod K. Singh**
J. of Exp. Nanoscience, 9 (2014) 444-451. (*SCI, Imp. Fac. 2.482*)
47. Electrochemical Synthesis of Graphene Oxide and Its Application as Counter Electrode in Dye sensitized solar cell
Journal of Renewable & Sustainable Energy Review, 6 (2014) 013125-013133 (*SCI, Imp Factor 10.55*)
Hee Woo Rhee, B. Bhattacharya, **Pramod K Singh** and Upasana Singh
48. Synthesis, Characterization and Application of CdSe quantum dots
Karan Surana, **Pramod K Singh**, Hee Woo Rhee, B. Bhattacharya
Journal of Engineering & Industrial Chemistry, 20 (2014) 4188-4193 (*SCI, Imp. Factor 4.97*)
49. Detail electrical investigation on Sago Starch biopolymer solid electrolyte
Rahul Singh, Jaya Baghel, S. Shukla, B. Bhattacharya, and **Pramod K. Singh**
Phase Transitions, 87 (2014) 1237-1245 (*SCI, Impact Factor 1.026*)
50. Structural and electrical studies of Fullerene (C60) dispersed polymer electrolyte
Amit Saxena, **Pramod Kumar Singh**, B. Bhattacharya
Materiali in tehnologije, 48 (2014) 485-490 (*SCI, Impact Factor 0.714*)

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51. A comprehensive study of chalcogenide Quantum Dot Sensitized Solar Cells with a new solar cell exceeding 1V output
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Karan Surana, R. M. Mehra, B. Bhattacharya, A. P. Reddy, Hee-Woo Rhee, **Pramod K. Singh**
52. Dye-sensitized solar cell comprising polyethyl methacrylate doped with ammonium iodide solid polymer electrolyte
Vivek Kr Singh, B. Bhattacharya, S. Shukla and **Pramod K. Singh**
Applied Physics: A 118 (2015) 877-883 (*SCI, Imp. Factor 1.784*)
53. Synthesis of Graphene Oxide Coated Nafion Membrane for Actuator Application
Karan Surana, **Pramod K. Singh**, B. Bhattacharya, C. S. Verma and R. M. Mehra
Ceramics International 41 (2015) 5093-5099 (*SCI, Imp Factor 3.450*)

54. New PVP doped NH₄I solid polymer electrolyte for dye sensitized solar cell
Vivek K Singh, B. Bhattacharya, S. Shukla, **Pramod K. Singh**
Materiali in Tehnologije 49 (2015) 123-127 (*SCI, Impact Factor 0.714*)
55. Band Gap Tailoring of Ni Doped Ternary Semiconductors for Photovoltaic Applications
Mitali Sahu, **Pramod K Singh**, S. P. Pandey, B. Bhattacharya
Macromolecular Symposia 347(2015) 68-74
56. Nanoporous TiO₂ and ZnO Photoelectrodes: A Comparative Photovoltaic Performance Study
Nitin A. Jadhav, S. K. Tomar, **Pramod K Singh**, B. Bhattacharya
International Journal of Electroactive Materials 3 (2015) 1-5
57. Luminescence and EPR studies of ultraviolet light emitting La₂Zr₂O₇:Gd³⁺ phosphor powder
V. Singh, G. Sivaramaiah, J. L. Rao, R. Senthil Kumaran, **Pramod K Singh**, T. S. Kim and L. K. Kim
J Mater Sci: Mater Electron 26 (2015) 5195-5201 (*SCI, Imp. Factor 2.993*)
58. Solid Gellan gum Carbohydrate Polymer Electrolyte for Energy Application
Rahul Singh, B. Bhattacharya, Hee Woo Rhee, **Pramod K Singh**
Int. J. Hydrogen Energy, 26 (2015) 5195-5201 (*SCI, Imp. Factor 4.084*)
59. New ultraviolet B emission from gadolinium activated BaZrO₃ phosphor - An electron paramagnetic resonance and optical study
V. Singh, G. Sivaramaiah, J. L. Rao, R. Senthil Kumaran, **Pramod K Singh**, T. S. Kim
Journal of Alloys and Compounds 26 (2015) 1083-1089 (*SCI, Imp. Factor 4.175*)
- (Year 2016)**
60. Electrical, structural and thermal studies of carbon nanotubes from natural legume seeds: kala chana
Rachana Ranu, Yatishwar Chauhan, **Pramod K Singh**, B. Bhattacharya & S. K. Tomar
Phase Transitions 89(2016) 1146-1154. (*SCI, Imp.Fac. 1.026*)
61. EPR and optical properties of Eu²⁺ and Mn²⁺ co-doped MgSrAl₁₀O₁₇ blue-green light emitting powder phosphors
N. Singh, Vijay Singh, G. Sivaramaiah, J. L. Rao, **Pramod K. Singh**, M. S. Pathak, S. J. Dhoble, M. Mohapatra
Journal of Luminescence 178(2016) 479-486. (*SCI, Imp.Fac. 2.961*)
62. Photoluminescence and ESR identification of γ -ray irradiation induced defects responsible for thermoluminescence in Tb³⁺ activated CaAl₁₂O₁₉ phosphor
V Singh, S. Watanabe, T K. Gundu Rao, N. Singh, A K. Srivastava, **Pramod K. Singh**, H. Gao, P. Mardina, S. J. Dhoble
Journal of Electroceramics 37 (2016) 58-65. (*SCI, Imp.Fac. 1.966*)
63. Ion irradiation on polymer electrolyte films: comparative study on conductivity
Divya Singh, **Pramod K Singh**, B. Bhattacharya
High Performance Polymers, 28 (2016) 1059-1063. (*SCI, Imp. Fac. 1.584*)
64. Perspectives for Solid Biopolymer Electrolytes in Dye Sensitized Solar Cell and Battery Application
Rahul Singh, B. Bhattacharya, A. P. Reddy, Canan Varlikli, Hee-Woo Rhee, **Pramod K. Singh**
Renewable and Sustainable Energy Review 65 (2016) 1098-1117. (*SCI, Imp. Fac. 9.184*)
65. Efficient dye sensitized solar cell and supercapacitor using 1-Ethyl 3-Methyl imidazolium dicyanamide incorporated PVDF-HFP polymer matrix
Asmat Nawaz, Rehana Sharif, Hee - Woo Rhee, **Pramod K Singh**
Journal of Industrial & Engineering Chemistry 33 (2016) 381-384. (*SCI, Imp.Fac. 4.841*)
66. Synthesis, characterization and dye sensitized solar cell fabrication using solid biopolymer electrolyte membrane
Rahul Singh, **Pramod K. Singh**, S. K. Tomar, B. Bhattacharya
High Performance Polymers 28 (2016) 47-54. (*SCI, Imp. Fac. 1.584*)
67. Dip Coated TiO₂ Nano Structured Thin Film: Synthesis and application
K. Muthukrishnan, M. Vanaraja, S. Boomadevi, R. K. Karn, J. B. B. Rayappan, V. Singh, **Pramod K Singh** and K. Pandiyan
Phase Transitions 89 (2016) 107-114. (*SCI, Imp. Fac. 1.026*)

68. Studies on Acetone sensing characteristics of ZnO thin film prepared by sol-gel dip coating
K. Muthukrishnan, M. Vanaraja, S. Boomadevi, R. K. Karn, J. B. B. Rayappan, V. Singh, **Pramod K Singh** and K. Pandiyan
Journal of Alloys and Compounds 673 (2016) 138-143 (*SCI, Imp. Fac.* 4.175)
69. Multi walled Carbon Nanotubes and Ionic liquid doped solid electrolyte for efficient supercapacitor
Polymer Bulletin 73 (2016) 255-263 (*SCI, Imp. Fac.* 1.858)
Pramod K. Singh, Sabin KC, Xuyuan Chen
70. Efficient Perovskite Sensitized Solar Cell using Solid Polymer Electrolyte
Rahul, B. Bhattacharya, **Pramod K Singh**, Roja Singh, Z. H. Khan
Int. J. Hydrogen Energy 41 (2016) 2847-2852. (*SCI, Imp. Fact.* 4.084)
71. EPR and optical properties of green emitting Mn doped BaMgAl₁₀O₁₇ nano-phosphor prepared by a combustion reaction
Vijay Singh, M. Mohapatra, G. Sivaramaiah, J.L. Rao, N Singh, H. Gao, J. Li, A K Srivastava, H.D. Jirimali, S.J. Dhoble, **Pramod K Singh**, KVR Murthy, V. Natarajan
J Mater Sci: Mater Electron 27 (2016) 3697-3703. (*SCI, Imp. Factor* 2.993)
72. The effect of CuO and NiO doping on dielectric and ferroelectric properties of Ba_{0.5}Na_{0.5}TiO₃ lead free ceramics
Sunanda Kakroo, Arvind Kumar, S. K. Mishra and **Pramod K Singh**
Phase Transitions 89 (2016) 211-220. (*SCI, Imp. Fac.* 1.026)
73. Dip Coated Nanostructured ZnO Thin Film: Synthesis and Application.
K. Muthukrishnan, M. Vanaraja, S. Boomadevi, R. K. Karn, J. B. B. Rayappan, V. Singh, **Pramod K Singh** and K. Pandiyan
Ceramics International 42 (2016) 4413-4420. (*SCI, Imp. Factor* 3.450)
74. Visible up-conversion and infrared luminescence of Er³⁺/Yb³⁺/Zn²⁺ co-doped c-LiAlO₂ phosphor
V. Singh, V.K. Rai, I.L. Rak, N. Singh, H. Gao, J. Li, A. K. Srivastava, **P. K. Singh**
J Mater Sci: Mater Electron 27 (2016) 886-891. (*SCI, Imp. Factor* 2.993)
75. Visible upconversion luminescence of Yb co-doped Gd₂Zr₂O₇:Er prepared by a solution combustion reaction
V. Singh, V.K. Rai, H. Gao, N. Singh, J. Li, A. K. Srivastava, R. Senthil Kumar, **Pramod K Singh**
J Mater Sci: Mater Electron 27 (2016) 310-315. (*SCI, Imp. Factor* 2.993)
76. Combustion Synthesized Cr³⁺-doped-BaMgAl₁₀O₁₇ Phosphor: An Electron Paramagnetic Resonance and Optical Study
Vijay Singh, G. Sivaramaiah, J.L. Rao, A K Srivastava, R.V.S.S.N. Ravikumar, S.J. Dhoble, **P. K. Singh**, and M. Mohapatra
Journal of Electronic Materials 45 (2016) 365-373 (*SCI, Imp. Factor* 1.676)
77. Optical characterization, absorption and upconversion luminescence in Er³⁺ and Er³⁺/Yb³⁺ doped In₂O₃ phosphor
Vijay Singh, M. Seshadri, N. Singh, M.S. Pathak, R. Senthilkumarn, Y. K. Choi, **Pramod K Singh**, S.J. Dhoble, A K Srivastava
Journal of Luminescence 176 (2016) 347-355. (*SCI, Imp. Factor* 2.961)
78. Combustion synthesized Fe doped CeO₂ powder-characterization, optical absorption and EPR spectroscopy
V. Singh, G. Sivaramaiah, J.L. Rao, N. Singh, A K Srivastava, **Pramod K Singh**, S. U. Pawar, H. Gao, P. Mardina
J Mater Sci: Mater Electron 27 (2016) 4494-4500 (*SCI, Imp. Factor* 2.993)
79. Eu²⁺ and Mn²⁺ Co-doped BaMgAl₁₀O₁₇ Blue- and Green Emitting Phosphor: A Luminescence and EPR Study
Vijay Singh, G. Sivaramaiah, J.L. Rao, N. Singh, A K Srivastava, H.D. Jirimali, J. Li, H. Gao, R. Senthilkumarn, **Pramod K Singh**, and S.J. Dhoble
Journal of Electronic Materials 45 (2016) 2776-2783 (*SCI, Imp. Factor* 1.676)
80. Cr³⁺-Doped Yb₃Ga₅O₁₂ Nanophosphor: Synthesis, Optical, EPR, Studies
Vijay Singh, G. Sivaramaiah, J.L. Rao, N. Singh, M.S. Pathak, H.D. Jirimali, **Pramod K. Singh**, Anoop K. Srivastava, S.J. Dhoble, and M. Mohapatra
Journal of Electronic Materials 45 (2016) 4076-4082 (*SCI, Imp. Factor* 1.676)

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81. Carbon Nanotubes using Spray pyrolysis: Recent Scenario
Annubhawi Annu, **Pramod K Singh**, P.K. Shukla, H - W Rhee and B. Bhattacharya
J. Alloys and Compounds 691 (2017) 970-982. (*SCI, Imp.Fac.* 4.175)
82. Visible upconversion in Er³⁺/Yb³⁺ co-doped LaAlO₃ phosphors
Vijay Singh, V.K. Rai, N. Singh, M.S. Pathak, M. Rathaiah, V. Venkatramu, R. V. Patel, **Pramod K. Singh**, S.J. Dhoble
Spectrochimica Acta Part A 171 (2017) 229-235. (*SCI, Imp.Fac.* 2.931)
83. Studies of radiation-induced defects in Li₂SiO₃:Sm phosphor material
N. Singh, Vijay Singh, S. Watanabe, T. K. Gundu Rao, J. F. D. Chubaci, N. F. Cano, M. S. Pathak, **Pramod K. Singh**, S. J. Dhoble
Journal of Electronic Materials 46 (2017) 451-457. (*SCI, Imp.Fac.* 1.676)
84. Probing the Thermodynamic and Magnetic Properties of UV-B-Emitting GdAlO₃ Phosphors by ESR and Optical Techniques
Vijay Singh, G. Sivaramaiah, M. Mohapatra, J.L. Rao, N. Singh, M S Pathak, **Pramod K Singh**, and S.J. Dhoble
Journal of Electronic Materials 46 (2017) 1137–1144. (*SCI, Imp.Fac.* 1.676)
85. Optical and EPR spectroscopic studies of deep red light emitting Fe-doped LiAl₅O₈ phosphor prepared via propellant combustion route
Vijay Singh, G.Sivaramaiah, J. L. Rao, N. Singh, M. Mohapatra, **Pramod K. Singh**, M. S. Pathak, S. J. Dhoble
Journal of Electronic Materials 46 (2017) 1525-1531. (*SCI, Imp.Fac.* 1.676)
86. Effect of crystal and powder of CH₃NH₃I on the CH₃NH₃PbI₃ based Perovskite sensitized solar cell
Rahul, **Pramod K Singh**, Rahul Singh, B. Bhattacharya, S. K. Tomar and Zishan H. Khan
Materials Research Bulletin 89 (2017) 292-296. (*Sci, Impact Fac.* 3.355)
87. Electrical, optical and photoelectrochemical studies on Agarose based biopolymer electrolyte towards dye sensitized solar cell application
Rahul Singh, B. Bhattacharya, S. K. Tomar, V. Singh and **Pramod K Singh**
Measurement 102(2017) 214-219. (*SCI, Impact Fac.* 2.791)
88. Synthesis and Properties of Polyaniline, Poly (o-anisidine) and Poly (aniline-co-o-anisidine) using potassium iodate oxidizing agent
Manglik Neetika, Jain Rajni, **Pramod K Singh**, V. Singh, B. Bhattacharya and S. K. Tomar
High Performance Polymers 29(2017) 266-271. (*SCI, Imp. Fac.* 1.584)
89. Agarose biopolymer electrolytes: Ion conduction mechanism and dielectric studies
Rahul Singh, **Pramod K Singh**, Vijay Singh and B. Bhattacharya
Cellulose Chem. Technol., 51 (2017) 949-955. (*SCI, Imp. Fac.* 0.857)
90. Carbon-Fly ash composite and its detail characterization
Pratap Singh, B. Bhattacharya, **Pramod K Singh**
Phase Transitions, 90 (2017) 236-243. (*SCI, Imp.Fac.* 1.026)
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Shreya Mathela, Bharti Sangwan, Pawan Singh Dhapola, **Pramod K. Singh**, Richa Tomar
Materials Today: Proceedings (2021) DOI: <https://doi.org/10.1016/j.matpr.2020.12.375>
189. A comprehensive study of structural, vibrational, electronic properties of celecoxib compound by density functional theory
Amrit Kumar Mishra, R K Shukla, Pramod K Singh
Materials Today: Proceedings (2021) DOI: <https://doi.org/10.1016/j.matpr.2020.12.288>
190. A computational approach to investigate the suitable ETL for lead-free CsGeI₃ based perovskite solar cell
Abhishek Raj, Manish Kumar, **Pramod K. Singh**, Ram Chandra Singh, H Bherwani, A Gupta, A Anshul
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Abhishek Raj, Avneesh Anshul, Vinita Tuli, Pramod K. Singh, Ram Chandra Singh, Manish Kumar
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192. Nano Cd(II)- benzyl benzothiazol-2-ylcarbamodithioate complexes: Synthesis, Characterization, anti-cancer and antibacterial
Mustafa A Alheety; Hayfa M. Jirjes; Ahmed A. Irzoqi; Luma A. Al-Doori; Pramod K. Singh
Journal of Molecular Structure (MOLSTRUC-D-21-03419R1)

In International Conference Proceedings (3)

1. New interfacial phase formation in $\text{NiCl}_2 \cdot 6\text{H}_2\text{O}:\text{Al}_2\text{O}_3$ composite and ion transport properties.
Lakshmi N., Kamlesh Pandey, **P. K. Singh** and S. Chandra in “*Solid State Ionics: Science & technology*”, (eds) B.V.R. Chowdari et al, World Scientific Pub. Co. (Singapore), 1998, 65-70.
2. Dependence of conductivity enhancement on the dielectric constant of the dispersoidin polymer-ferroelectric composite electrolytes
Amreesh Chandra, Pramod Kumar Singh, Suresh chandra in “*Solid State Ionics: Advanced Materials for Emerging Technologies*”, (eds) B.V.R. Chowdari et al, World Scientific Pub. Co. (Singapore), 2006, 444-448.
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3. Property Enhancement of Dye Sensitized Solar Cell using ionic liquid doped solid polymer electrolyte.
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Book/Chapter (7): Published:6; Under Publication:1

Published (5)

1. Chapter topic “Present scenario of solid state photoelectrochemical solar cell and dye sensitized solar cell using PEO-based polymer electrolytes” Nova Science Publishers, Inc., USA (2011)
https://www.novapublishers.com/catalog/product_info.php?products_id=17538
2. *Nanotechnology and Nanomaterials* » “*Recent Applications in Sol-Gel Synthesis*”, book edited by Usha Chandra, ISBN 978-953-51-3246-2, Print ISBN 978-953-51-3245-5, Published: July 5, 2017 under [CC BY 3.0 license](https://creativecommons.org/licenses/by/3.0/). © The Author(s).

Chapter 6

Recent Characterisation of Sol-Gel Synthesised TiO_2 Nanoparticle

By Muhamad Zamri Yahaya, Mohd Asyadi Azam, Mohd Asri Mat Teridi, **Pramod Kumar Singh** and Ahmad Azmin Mohamad

3. Recent Scenrio of Solid Biopolymer Electrolytes Based Dye sensitized solar cells
(November 28, 2017) CRC Press (Taylor & Francis Group, USA)
Rahul Singh, **Pramod K. Singh**, B. Bhattacharya
<https://www.crcpress.com/Nanomaterials-in-Energy-Devices/Kiat/p/book/9781498763516>
4. AI Techniques for Reliability Prediction for Electronic Components
(2020) Published by IGI, Global
DOI: 10.4018/978-1-7998-1464-1.ch002
Chapter 2: Reliability Study of Polymers (2020) 45-54
Amit Sachdeva and **Pramod K. Singh**
<https://ieeexplore.ieee.org/document/8479570>
<https://www.igi-global.com/chapter/reliability-study-of-polymers/240489>

5. Polymer Electrolytes: Applications and Challenges (Volume 2) (2020) Published by Willey Chapter 11

Polymer Electrolytes for Perovskite Solar Cell and Challenges (Pages: 339-363)

Rahul Singh ,Hee-Woo Rhee,Bhaskar Bhattacharya,Pramod K. Singh

Book Editor(s): Tan Winie Abdul K. Arof, Sabu Thomas
<https://onlinelibrary.wiley.com/doi/10.1002/9783527805457.ch11>

6. Composite Materials Properties, Characterisation, and Applications

By [Amit Sachdeva](#), [Pramod Kumar Singh](#), [Hee Woo Rhee](#)

Copyright Year 2021 (CRC Press, Taylor & Francis)

7. Emerging Trends in Nanotechnology (2021) Published by Willey

Chapter 2

Studies on Dye sensitized solar cells incorporated with perovskite as sensitizer dye (Pages: 45-82)

Rahul, Sultan Ahmad, **Pramod K Singh**, Zihsan Husain Khan

Communicated: 6

1. Nickel Oxide as Efficient Hole Transport Material for Sandwich Structured Perovskite Solar Cell

Monika Srivastava, Karan Surana, **Pramod Kumar Singh**, Ram Chandra Singh

Communicated in **Solar Energy**

2. Study on electrical conduction properties of plasticized CMC-DTAB based solid biopolymer electrolytes

N.F. Mazuki, Pramod K. Singh and A.S. Samsudin

3. High Conducting PVDF-HFP+PTA polymer electrolyte for Supercapacitor application

Usman Yusuf Bello, Pawan Singh Dhapola, Himani Ahuja, Pramod K Singh

Communicated in **Material Today Proceedings**

4. Synthesis of porous carbon from PVC polymer and their application in supercapacitor

Pawan Singh Dhapola, Manoj Karakoti; Pramod K. Singh; Nanda Gopal Sahoo

Communicated in **JIEC**

5. Poly(methyl methacrylate) doped ionic liquid 1-ethyl-3-methylimidazolium tricyanomethanide (TCM) for efficient electrical double layer supercapacitor

Tejas Sharma, Pawan Singh Dhapola, Pramod Kumar Singh

Communicated in **Journal of Applied Physics A**

6. Synthesis of porous carbon derived from Corn-starch biopolymer for the application in supercapacitor

Gaurav Nath; Pawan Singh Dhapola; Pramod K. Singh

Communicated in **Jcarbon Trends**

Manuscript Number: CARTRE-D-21-00145

Miscellaneous Training / Awards etc.

Best Poster awards:

1. Sixth Asian Conference on Solid State Ionics held at Surajkund, India in Dec. 1998.

2. 1st International Conference on Electroactive Polymer held at Dalhousie, India, Nov. 1-5, 2004

3. HOMRC workshop, Muju, S. Korea, June 14-16, 2006

Research Work Done during Ph.D: (Total 8 Years; from 1995-2003)

The main area of my research is "Ion conducting polymers, Solid composites." I developed some mixed (ion+electron) conducting **polymeric films** by "in situ" dispersing nano size semiconductors PbS, CdS, ZnS etc. during the period of my Ph.D. thesis work. Interesting results on structural and electrical properties of PEO -films were obtained when **nano - size semiconductors** were dispersed. Apart from enhancement in ionic conductivity at some optimum composition, films were found to have different absorption spectra as a result of quantum-size effect.

Research Work Done during Post Doc: (~ 6 Years)

(a) **In India (Banaras Hindu University; from 2003-2005, as SRF/Research Associate)**

As a part of my postdoctoral work in India, the following studies have been carried out:-

(i) To improve electrical/ mechanical properties of polymer electrolyte films, I have dispersed ferroelectric ceramic powders having high dielectric constant.

- (ii) Thermal diffusivity of polymer composites having different electrical conductivity has been measured by Photoacoustic Technique. A correlation has been established.

(b) In S. Korea (Sogang University; from 1-7-2005 ~ 30-7-2009 as Post-Doc/Research Professor)

As a part of my postdoctoral work in S. Korea, I have concentrated on fabrication and characterization of mesoporous TiO₂ electrode and PEO/ Ionic liquids as electrolyte for Dye sensitized solar cell (DSSC) application. Since I have basic knowledge of polymer electrolyte during my Ph.D., I have successfully fabricated mesoporous TiO₂ electrode (pore diameter ~13 nm) having thickness ~10 μm and TiO₂ interchannel particles (particle size ~20-25 nm). In electrolyte it has been found that the doping of Ionic liquid enhances ionic conductivity by reducing crystallinity. DSSC without ionic liquid showed 1.04 % efficiency while doping of ionic liquid enhances efficiency (1.23 %) at 1 sun light intensity (100 mW/cm²). Further the optimization of solar cell efficiency by modifying the TiO₂ electrode and new solid polymer/IL electrolytes (Chitosan, Biopolymer) showed that efficiency could reach ~2-3 % at 1 sun condition.

(c) In Sharda University, Greater Noida, India (from 1-8-2009 ~ 10-5-2014) as Teacher/Researcher)

After return back from South Korea I have joined Sharda University, India as a Assistant Professor in 2009. I have taught many courses in UG and PG level (mentioned above). During above said period apart from teaching I have well established a well equipped lab. known as Material Research Lab. In Sharda University and actively carried our research activity in an International status. More details can be find as www.materialsresearchlab.net

Soon I have well equipped lab with researchers I have move forward in Polymer electrolyte area, Nanomaterials, Dye sensitized solar cell and published ~32 International Publication. With this achievement I have promoted as Associate Professor in year 2012 and continue my service till. 10-5-2014.

(d) In Norway (Vestfold University College, Norway from 25-5-2014 to 30-7-2015 as Post-Doc)

During post doc journey in Norway, with my earlier experience in Dye sensitized solar cell I had worked on “EDLC and ESC Supercapacitor’s on Si-chip”.

(e) In Turkey (Solar Energy Institute, Ege University, Turkey from 30-9-2015 ~30-7-2016 as TUBITAK fellow)

In 2015, I got selected in TUBITAK fellow with Prof. Canan Verlikli, Ege University, Turkey and join here on 30th Sept. 2015. Within my earlier experience in Dye sensitized solar cell and Supercapacitor I have attempted and establish some novel work on “EDLC Supercapacitor’s using solid polymer electrolyte”.

Paper presented in Seminar/Conferences/Symposia: (Total 37)

National (in India): Total 13

- (1) Presented a paper entitled “**Studies on a proton conducting composite**” in the Second National Conference on SSI held at IIT, Madras, Feb. 1996.
- (2) Presented a paper entitled “**Fast proton transport in N₂H₆SO₄:ZrO₂ composite and ion transport properties**” in the 3rd National Conference on SSI, at NERIST, Itanagar, 1998.
- (3) Presented a paper entitled “**Conductivity of Polymer composites with high dielectric constant ferroelectric ceramics and high band gap semiconductors as dispersoids**” in the Fifth National Conference on SSI held at Nagpur, 2002.
- (4) Presented a paper entitled “**Ionic Conductivity Enhancement in Dispersed Phase Composites: Evidence of Two Percolation Threshold**” in the National Seminar on Advanced Materials held at DDU Gorakhpur University, Gorakhpur **22-24th March, 2002**.
- (5) Presented a poster entitled “**Electroactive polymer composites for solid state ionic device applications**” in the 15th AGM of Materials Research Society held at Banaras Hindu University, Varanasi, **9-11Feb.,2004**.
- (6) Participated in the Conference on Disorder,Complexity and Biology (DISCOMB04) held at Banaras Hindu University, Varanasi, **12-15th July,2004**.
- (7) Presented a paper entitled “**Ionic Conductivity Enhancement in Polymer Electrolyte: Role of Dielectric constant**” in the 6th National Conference on SSI held at Jadavpur University, Kolkata, India, **Oct. 5-7,2004**.
- (8) Presented a paper entitled “**Application of Ionic Liquid Doped Solid Polymer Electrolyte in Dye Sensitized Solar Cell area**” in the Two Days National Conference on Emerging Technologies:Nanotechnology & Cryogenics held at G. L. Bajaj Institute of Technology & Management, Greater Noida, India, **Oct. 30-31, 2009**.
- (9) Presented a paper entitled “**Application of Solid Polymer Electrolyte in DSSC**” in National Conference on recent trends in materials and devices held at Amity Institute of Applied Sciences, Amity University, G. Noida, U.P., India, **May 20-22, 2010**.

- (10) Present a paper entitled “**PEO-based Polymer Electrolyte: A novel material for DSSC application**” in National Conference on Solar Cell held at ITS Engee. College, G. Noida, U.P., India, **March 23-24, 2011**.
- (11) Presented a paper entitled “**Ionic Liquid-Solid Polymer Electrolyte for Electrochemical Devices**” in the Three Days National Conference on Synthesis, Characterization & Application of Advanced Nanomaterials in HCST, Mathura, India, **January 17-19, 2014**.
- (12) Presented a paper entitled “**Synthesis and characterization of $\text{CH}_3\text{CH}_2\text{NH}_3\text{PbI}_3$ perovskite & its photovoltaic performance**” in the Two Days National Conference on Nano Devices held in HCST, Mathura, India, **April 18-19, 2015**.
- (13) Going to present an Invited Talk on “**POLYMER –IONIC LIQUID SOLID ELECTROLYTE FOR ENERGY APPLICATIONS**” in Online National Conference on Recent Advances in Functional Materials (RAFM-2020) 05-06th November, 2020, ARSD College, New Delhi, India

International: Total 28

- (1) Presented a paper entitled “**Semiconductor Dispersed Polymer Electrolyte Composites**” in the International Conference on SSI held at Cairns, Australia, July 8-13, 2001.
- (2) Presented a paper entitled “**Dependence of Ionic Conductivity and Thermal Diffusivity on the concentration of dispersed insulating fillers in Polymer Electrolytes**” in the International Conference on Electroactive Polymers: Materials and Devices held at Dalhousie, India, Nov. 1-5, 2004.
- (3) Presented a paper entitled “**PEO - based Polymer electrolyte for DSSC application**” in the Polymer Society of Korea Conference held at Ilson, S. Korea, April 6-7, 2006
- (4) Presented a poster entitled “**PEO- Polymer electrolytes incorporated with Ionic Liquid for Dye sensitized Solar cell**” in the 17th Symposium on Molecular Electronics and Devices “ME & D” held at Hanyang University, Seoul, S. Korea, June 22-23, 2006
- (5) Presented a paper entitled “**Dye Sensitized Solar Cell using Polymer Electrolytes based on Poly(ethylene oxide) with an ionic liquid**” in the IUPAC International Conference (PSK 30) held at Busan, S. Korea, Oct. 10-13, 2006.
- (6) Attended a Symposium entitled “**Recent Progress in Solar Cells**” held at Chonbuk National University, Junjoo, S. Korea, Feb. 2, 2007.
- (7) Attended the 2nd K-J Symposium and presented a poster entitled “**Dye Sensitized Solar Cells using Thick mesoporous TiO_2 electrode and polymer/ionic liquid as electrolyte**” (P 20) held at KIST, Seoul, S. Korea, Aug. 30-31, 2007.
- (8) Attended the 3rd East Asia Symposium on Functional Dyes & Advanced Materials and presented a poster entitled “**Thick mesoporous TiO_2 electrode and ionic liquid incorporated polymer electrolyte for DSSC application**” held at Ulson, S. Korea, October 10-12, 2007.
- (9) Attended the International Conf. on Nano Science and Nano Technology (GJ-NST 2007) and presented a paper entitled “**Nanocrystalline porous TiO_2 electrode with ionic liquid impregnated solid polymer electrolyte for DSSC**” held at Gwangju, Korea, Nov. 8-9, 2007.
- (10) Attend the World Forum on Advanced Materials (POLYCHAR 16) and presented a paper entitled “**Ionic liquid (1 propyl 3 methyl imidazolium iodide) with polymer electrolyte for DSSC application**” held at Lucknow, India, Feb. 17-21, 2008.
- (11) Presented an ORAL Talk in 19th IC ME & D on topic “**Development and characterization of ionic liquid doped solid polymer electrolyte membranes for better efficiency**” held at Ajou Univ., Suwon, S. Korea, May 29-30, 2008.
- (12) Presented a Poster entitled “**Ionic liquid incorporated polymer electrolytes for DSSC**” in RENEWABLE ENERGY 2008 held at BEXCO, Busan, S. Korea, Oct. 13-14, 2008.
- (13) Presented an ORAL Talk in Korean Polymer Society Spring Conference on topic “**Biopolymer-ionic composite membranes for dye sensitized solar cell**” held at Daejeon, S. Korea, April 9-10, 2009.
- (14) ORAL TALK on topic “**Porous nanocrystalline TiO_2 electrode and poly (N-methyl 4-vinylpyridine iodide) –**

ionic liquid solid polymer electrolyte for device application” in the International Conference cum Workshop on Nanoscience & Nanotechnology to be held at Ansal Institute of Technology, Gurgaon, India, October 12-16, 2009.

- (15) Present a paper entitled **“Ionic liquid doped solid polymer electrolyte: A novel material for DSSC Application”** in the International Conference on Electroactive Polymers: Materials and Devices held at Dalhousie, India, Nov. 1-5, 2010.

Year 2012-13

- (16) Presented a paper entitled **“Biopolymer gel electrolytes for electrochemical Application”** in the 5TH International Conference on Electroactive Polymers: Materials and Devices held at Banaras Hindu University, Varanasi, India, Nov. 4-9, 2012.

- (17) Attended the World Forum on Advanced Materials (**POLYCHAR 21**) and presented a paper entitled **“New Polymer electrolyte for Electrochemical Application”** to be held at Gwangju, S. Korea, March 11-15, 2013.

Year 2014-15

- (18) Presented an invited paper entitled **“Microsupercapacitors based on doped Si-grass electrode and solid gel electrolyte** in the 5TH International Conference on Functional Materials and Devices (ICFMD 2015) held at University of Malaya, Malaysia, August 4-6, 2015

Year 2015-16

- (19) Presented a poster entitled **“1- Propyl -3- methyl imidazolium bis(trifluoromethyl sulfonyl)imide blended gel polymer electrolyte for supercapacitor application** in the International Symposium for the 80th Birthday of Prof. Alan J. Heeger (Nobel prize 2000) held at Johannes Kepler University of Linz, Austria, **March 21, 2016**.

- (20) Presented an Invited Talk on **“Solid ionic liquid - polymer electrolyte for dual energy application”** in the **International Conference on Functional Materials-2016** held at PSN College of Engineering and Technology, Tirunelveli - 627152, Tamilnadu, India, **7-10 September 2016**

Year 2016-17

- (21) Present an invited talk entitled **“Ionic Liquid - polymer electrolyte for Dual Energy Devices** in the 6th International Conference on Functional Materials & Devices 2017 (ICFMD - 2017) held at MELAKA, MALAYSI A from August 15 to 18, 2017.

Year 2017-18

- (22) Attended the International Symposium on Computational Science and its Applications held at Sharda University, India, February 5-6, 2018.

Year 2018-19

- (23) Presented an invited Talk entitled **“Ionic liquid doped solid polymer electrolyte for energy devices** in the 15TH International Conference on Frontiers of Polymers and Advanced Materials (ICFPAM 2019) held at Penang, **Malaysia**, June 17-21, 2019 and chaired a Session.

- (24) Presented an invited Talk entitled **“Low viscosity Ionic liquid doped solid polymer electrolyte for energy applications”** in the Energy, Functional Materials and Nanotechnology (ICEFN-2019, **24-26th May 2019**) held at Kumaun University, Nanital, **India**

- (25) Presented an invited Talk entitled **“Ionic liquid doped solid polymer electrolyte for energy devices** in the International Conference on “Recent Trends in Materials and Devices”-ICRTMD-2019, **during 18-19th December, 2019** at Amity University Uttar Pradesh, Noida, India and Jury Member for Poster Session.

Year 19-20

- (26) Presented an invited Talk entitled **“Ionic liquid incorporated polymer electrolyte for dual energy devices”** in the International e-Conference on Advanced Functional Materials and Optoelectronic Devices” (ICAFMOD-2020) , during 13-15 June, 2020 at Prof. Rajendra Singh (Rajju Bhaiya) Institute of Physical Sciences for Study and Research, Veer Bahadur Singh Purvanchal University, Jaunpur-222003, U.P., India.

Year 20-21

- (27) Presented an Oral Talk entitled **“ Energy devices based on Polymer- Ionic Electrolyte”** in the 4th Int. **"COMMUNICATION IN THE NEW WORLD"** Congress, **TOKYO, Japan**, February **19-21, 2021**.

- (28) Presented an Oral Talk entitled **“Stable, Application of low viscosity Ionic liquid in developing energy devices”** in the International **MAS 14th INTERNATIONAL EUROPEAN CONFERENCE ON**

References:

1. Prof. Hee –Woo Rhee

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