

Brief Bio-Data

Name : Dr. Rajashekhar F. Bhajantri
Date and Place of Birth : 01-06-1970
Designation : Professor
Official Address : Department of Physics,
Karnatak University,
Pavate Nagar, Dharwad-580003
Karnataka, INDIA



Phone Office : 0836-2215316
Mobile : 9448623319
E-mail address : rfbhajantri@gmail.com
rfbhajantri@kud.ac.in
Qualification : M.Sc., Ph.D.
Area of Specialization : Nuclear and Condensed Matter Physics
Teaching Experience : 24 Years

- 1) Appointed as Lecturer: Aug. 1997
Department of Physics,
Mangalore University, Mangalore
- 2) Promoted as Associate Professor: Aug. 2011
Department of Physics,
Mangalore University, Mangalore
- 3) Appointed as Professor: Oct. 2013
Department of Physics
Karnatak University, Dharwad

Title of Ph. D. Thesis : Free Volume Related Microstructural Study of Polymers

Ph.D. Award Year : 12-08-2008

Research Supervisor : Dr. V. Ravindrachary
Professor,
Department of Physics,
Mangalore University, Mangalagangothri-574199

Research Experience : 22 Years

No. of Ph.D. Students: Awarded: 05, Working: 08,

Research Interest: Experimental studies on polymer-based nanocomposites, ion conducting polymers, polymer electrolytes for developing energy storage devices. Fluorescence emission, fluorescence quenching, fluorescence lifetime, quantum yield and quantum efficiency of dye doped polymer nanocomposites for optical applications.

Research Publications: 90 (International Journals)
10 (Conference Proceedings)
07 (Invited Talks)
65 (International Conference Presentations)
56 (National Conference Presentations)
02 (Book Chapters in International Books)

Google Scholar Citation indices

	All	Since 2017
Citations	1180	770
h-index	16	15
i10-index	27	24

Sponsored Research Projects Carried out/On-going:

- 1) **UGC-MRP:** Electron and UV irradiation induced microstructural studies of polymer-based nanocomposites, with amount: Rs. 2,40,000/-, Period: 2009-2012
- 2) **DAE-BRNS:** Mechanical and Positron Annihilation Studies on Electron Irradiated Polymer Nanocomposites, with amount: Rs. 22,41,532/-, Period: 2010-2014
- 3) **DST-SERB Fast Track Young Scientist:** Positron Annihilation and Dielectric Studies on Ion Conducting Polymers, with amount: Rs. 23,47,000/-, Period: 2012-2015.
- 4) **DST-SERB Under “Empowerment and Equity Opportunities for Excellence in Science:** Preparation and Characterisation of Fluorescent dye doped Polymer Nanocomposites, with amount: Rs. 49,32,000/-, Period: 2015-2018

Research Collaboration: BARC, Mumbai
SINP, Kolkata
MIT, Manipal
Mangalore University
University of Mysore
KLE University, Hubballi
JSS University, Mysore

Chairmanships at National or International Conference/Seminar etc.

Third International Conference on Natural Polymers, Bio-Polymers, Bio-Materials, their Composites, Blends, IPNs, Polyelectrolytes and Gels: Macro to Nano Scales (ICNP-2012) during Oct 26, 27 & 28, 2012 Mahatma Gandhi University, Kottayam, Kerala.

Editor of Proceedings

Proceedings of the International Conference on Physics of Materials and Nanotechnology (ICPN 2019) held during 19–21 September 2019

Location: Mangalore University, Mangalore, Karnataka, India

ISBN: 978-0-7354-2003-8

Editors: Devendrappa Hundekal, Ganesh Sanjeev, Rajashekhar Bhajantri, Rameshwar Adhikari, Rabah Boukherroub and Shanmugam Sangaraju

Volume number: 2244, Published: Jun 26, 2020

Book Chapters Published:

1. Spectral Tuning of P3HT/PTCDA Bulk Hetero P-N Junction Blend for Plastic Solar Cell,

Ishwar Naik, Rajashekhar Bhajantri, Jagadish Naik,

“Applied Physical Chemistry with Multidisciplinary Approaches” Chapter-IV

Pages: 81-106, edited by A. K. Haghi, Devrim Balköse, Sabu Thomas,

CRC Press, Taylor & Francis Group and Apple Academic Press, New York (May 2018)

e-Book ISBN 9781351688888, ISBN 9781771886062 - CAT# N11935

2. Optically Tuned MDMO-PPV/PCBM Blend for Plastic Solar Cells

Ishwar Naik, Rajashekhar Bhajantri, and Jagadish Naik

“Nanotechnology-Driven Engineered Materials: New Insights” Pages: 255-278

1st Edition, Editors: Sabu Thomas, Yves Grohens, Nandakumar Kalarikkal, Oluwatobi Samuel Oluwafemi, K.M. Praveen, *Apple Academic Press New Jersey, USA* and *CRC Press, a member of Taylor & Francis Group* (2019)

ISBN-13:978-1-77188-634-5(Hard), -13:978-1-315-10260-3 e-Book ISBN9781351592581

Professional/Academic Recognition

- 1) Standardized X-ray Powder Pattern** for 1-(4-methylphenyl)-3-(4-methoxyphenyl) 2-propen-1-one, V Ravindrachary, Vincent Crasta, **R F Bhajantri**, Richard Gonsalves, International Center for Diffraction Data file no. (ICDD) No. 56-1679, 2006
- 2) Best Poster Presentation Award** for the paper “Dielectric, Thermal and Mechanical Properties of ADP doped PVA Composites” Jagadish Naik, **R. F. Bhajantri**, V. Ravindrachary, Sunil G. Rathod, T. Sheela, Ishwar Naik presented in 59th Solid State Physics Symposium held during Dec. 16-20, 2014 at VIT University, Vellore (T.N).
- 3) Outstanding Contribution in Reviewing Awards** from *Journal of Non-Crystalline Solids, Journal of Physics and Chemistry of Solids, Solid State Ionics, Optical Materials, Polymer, Materials Letter, Journal of Industrial and Engg Chemistry etc.*
- 4) Best Research Publication Award in Science-2017** by Karnatak University, Dharwad for paper “Synthesis and dielectric investigations of bismuth sulfide particles filled PVA: Polypyrrole core-shell nanocomposites” Vidyashree Hebbar, R. F. Bhajantri, **Materials Science & Engineering B**, 224, 171–180, (2017), Impact factor: 3.316
- 5) Best Research Publication Award in Science-2019** by Karnatak University, Dharwad for the paper “Role of free volumes in conducting properties of GO and rGO filled PVA-PEDOT:PSS composite free standing films: A positron annihilation lifetime study” Vidyashree Hebbar, R.F. Bhajantri, H.B. Ravikumar, S. Ningaraju. **Journal of Physics and Chemistry of Solids 126 (2019) 242–256**

Membership of Academic/professional Organization/Associations/Committees:

- Life Member, Indian Physics Association, BARC, Mumbai, India
- Life Member, Indian Society for Radiation Physics, BARC, Mumbai, India
- Member of Various Committees (BoE, BoS, BoA etc.) of K. U. Dharwad & Other Universities
- Local Co-Ordinator, GIAN Program, MHRD, Govt. of India
- RUSA Nodal Officer, RUSA Cell, Karnatak University, Dharwad
- Co-ordinator, Equal Opportunity Cell, Karnatak University, Dharwad
- Member, Research Advisory Committee, KLE Technological University, Hubballi
- Chairman, Policy on Maintenance and Utilization of Physical and Infrastructural Facility.
- Member, Patent Act & Commercialization Policy Committee, K.U, Dharwad

Foreign Visits: Participated and presented two papers in International Conference POLYCHAR 18 Forum for Advanced Materials, University of Siegen, Germany, during 6-10 April 2010.

List of Publications:

2021

- 1) Designed and fabricated a low-cost E-Spun experimental tool for polymer processing, Chetan Chavan, R.F. Bhajantri, Soumya S Bulla and K Sakthipandi
Indian Journal of Engineering & Materials Sciences 28 (2021) 343-349
URI: <http://nopr.niscair.res.in/handle/123456789/58256>
- 2) Indigenously Designed and Fabricated Mechanical Milling Set-up to Synthesis Nanoparticles: A Cost-effective Method
Chetan Chavan, R.F. Bhajantri, Soumya S. Bulla & K Sakthipandi
Indian Journal of Pure & Applied Physics Vol. 59, September 2021, pp. 603-611
URI: <http://nopr.niscair.res.in/handle/123456789/58135>
- 3) Dominant nature of 7-hydroxy 4-methyl coumarin dye on thermal, fluorescence and antimicrobial properties of PVA/OMS blend films
Vishram D. Hiremani, Mallikarjun H. Anandalli, Tilak Gasti, Shruti Dixit, Praveen K. Bayannavar, Saraswati P. Masti, R. F. Bhajantri, Shyam Kumar Vootla, Bhagyavana. S. Mudigoudra & Ravindra B. Chougale
Journal of Polymer Research 28, Article Number: 353 (2021)
<https://doi.org/10.1007/s10965-021-02720-w>
- 4) Target-to-substrate distance influenced linear and nonlinear optical properties of a-plane oriented ZnO:Al thin films
Prasad Kumar, S. M. Dharmaprakash, M. Ananya Kote, K. M. Sandeep, Parutagouda Shankaragouda Patil & R. F. Bhajantri
Journal of Materials Science: Materials in Electronics 32 (2021) 22214-22231
Impact Factor: 2.220
<https://doi.org/10.1007/s10854-021-06704-w>
- 5) Impact of brilliant green (BG) dye on structural, linear and third order nonlinear optical properties of polyvinyl alcohol (PVA) polymer composites for optoelectronic applications, Mallikarjun H. Anandalli, R. F. Bhajantri, S. R. Maidur, P.S. Patil
Journal of Materials Research 36, 2856-2871 (2021), Impact Factor: 2.502
DOI:10.1557/s43578-021-00289-0
- 6) Synthesis and characterization of polythiophene/zinc oxide nanocomposites for chemiresistor organic vapor-sensing application
Soumya S. Bulla, R. F. Bhajantri, Chetan Chavan, K. Sakthipandi
Journal of Polymer Research 28 (2021) 251, Impact Factor: 2.426
<https://doi.org/10.1007/s10965-021-02618-7>
- 7) Physico-chemical properties of PVA-Nile blue (C₂₀H₂₀ClN₃O) polymer composite structures for γ -ray protection: A comparative γ -ray irradiation studies.
Chandrappa H., R. F. Bhajantri, Mahantesha B.K., Ravindrachary V., Shivaprasad Chalawadi,
Radiation Physics and Chemistry 184 (2021) 109481. Citation: 03
Impact Factor: 2.226.
<https://doi.org/10.1016/j.radphyschem.2021.109481>

- 8) Dielectric relaxations & ion transport study of NaCMC:NaNO₃ solid polymer electrolytes.
Supriya K Shetty, Ismayil, Shreedatta Hegde, V Ravindrachary, Ganesh Sanjeev, Rajashekhar F Bhajantri & Saraswati P Masti.
***Ionics* 27 (2021) 2509–2525. Impact Factor: 2.394**
<https://doi.org/10.1007/s11581-021-04023-y>
- 9) Photoluminescence in Strontium doped tin oxide thin films.
Basavaraj G. Hunashimarad, J.S. Bhat, P.V. Raghavendra, R.F. Bhajantri.
***Optical Materials* 114 (2021) 110962. Citation: 01, Impact Factor: 2.779**
<https://doi.org/10.1016/j.optmat.2021.110962>
- 10) Optical and Structural Properties of Biosynthesized Silver Nanoparticle Encapsulated PVA (Ag-PVA) Films,
Soumya S. Bulla, R. F. Bhajantri and Chetan Chavan.
***Journal of Inorganic & Organometallic Polymers and Materials* 31 (2021)2368-2380.**
Impact Factor: 1.941
<https://doi.org/10.1007/s10904-021-01909-2>
- 11) Spectroscopic and color chromaticity analysis of rhodamine 6G dye-doped PVA polymer composites for color tuning applications.
Madhavi Nandimath, Rajashekhar F. Bhajantri & Jagadish Naik.
***Polymer Bulletin* (2021) 78:4569–4592, Impact Factor: 2.014**
<https://doi.org/10.1007/s00289-020-03332-y>

2020

- 12) Simple fabrication of PVA-ATE (Amaranthus tricolor leaves extract) polymer biocomposites: An efficient UV-Shielding material for organisms in terrestrial and aquatic ecosystems, Chandrappa H, Rajashekhar F. Bhajantri, Ranjitha, Shwetha, Prarthana N.
***Optical Materials* 109(Aug 2020)110204. Citation: 03, Impact Factor: 2.779**
<https://doi.org/10.1016/j.optmat.2020.110204>
- 13) Optical properties of neutron irradiated PMMA doped methyl red.
Soumya S. Bulla, R. F. Bhajantri, Chetan Chavan, Shivaprasad Chalawadi, Mallikarjun Anandahalli, and Satyappa Kalliguddi,
***AIP Conference Proceedings* 2244, 090004 (2020), Impact Factor: 0.4.**
<https://doi.org/10.1063/5.0009329>
- 14) Effect of calcination temperature on synthesized ZnO nanoparticles
Chavan Chetan, R. F. Bhajantri, Bulla Soumya, Chalawadi Shivaprasad, Anandahalli Maliakarjun and Kalliguddi Satyappa.
***AIP Conference Proceedings* 2244, 070015 (2020), Impact Factor: 0.4.**
<https://doi.org/10.1063/5.0009107>
- 15) Fluorescence and third-order nonlinear optical properties of thermally stable CBPEA dye-doped PMMA/ZnO nanocomposites.
Mallikarjun H. Anandalli, R. F. Bhajantri, Shivaraj R. Maidur and P.S. Patil
***J Mater Sci: Mater Electron* 31 (2020) 10531–10547. Citation: 04**
Impact Factor: 2.220, <https://doi.org/10.1007/s10854-020-03601-6>

16) Dominant role of pyronin B on structural, optical and fluorescence properties of chemically synthesized ZnO loaded PVA polymer nanocomposites.
Madhavi Nandimath and Rajashekhar F. Bhajantri.
***Optical Materials* 105 (2020) 109892. Citation: 01, Impact Factor: 2.779**
<https://doi.org/10.1016/j.optmat.2020.109892>

2019

17) Fullerene (PCBM) Modulated MEH-PPV Photoactive Material for Plastic Solar Cells
Ishwar Naik, R. F. Bhajantri, B.S. Patil, Vinayak Bhat.
***Materials Science Forum*, Vol. 969, pp. 439-443, (2019), Impact Factor: 0.192.**
DOI:10.4028/www.scientific.net/MSF.969.439

18) The band gap tuned, LEP doped polymer films for plastic electronic devices.
Ishwar Naik, R F Bhajantri, R Tandel.
***AIP Conference Proceedings* 2057 (1), 020031 (2019), Impact Factor: 0.4.**
<https://doi.org/10.1063/1.5085602>

19) Proton conducting diazanium hydrogen phosphate/poly(vinyl alcohol) electrolytes: Transport, electrical, thermal, structural, and optical properties.
Jagadish Naik, RF Bhajantri, Sunil G Rathod and Ishwar Naik.
***Journal of Elastomers & Plastics*, Vol. 51(5) 390-405 (2019).**
Impact Factor: 1.112, Citation: 01, DOI: 10.1177/0095244318788128
<https://journals.sagepub.com/doi/abs/10.1177/0095244318788128>

20) Nano Composite Photoactive P-N Junction Blend for Plastic Solar Cell
Ishwar Naik, R. F. Bhajantri
***IOSR Journal of Mechanical and Civil Engineering (IOSR-JMCE)* 93-96, (2019)**
DOI: 10.9790/1684-16053029396

21) Optical and electrical properties of TCNQ doped PMMA films
Ishwar Naik, R.F. Bhajantri A. Pragasam, Sanjay Suryabhat,
***AIP Conference Proceedings* 2104, 030039 (2019), Impact Factor: 0.4**
<https://doi.org/10.1063/1.5100466>

22) Novel properties of PMMA/PVAc matrix, slightly doped with MDMO-PPV
Ishwar Naik, R. F. Bhajantri, Vinayak Bhat
***AIP Conference Proceedings* 2104, 030040 (2019), Impact Factor: 0.4**
<https://doi.org/10.1063/1.5100467>

23) Impact of Coumarin on Optical, Structural and Thermal Properties of TiO₂@ZnO core-shell filled PMMA matrix
Madhavi Nandimath, R. F. Bhajantri, Jagadish Naik, Vidyashree Hebbar
***AIP Conference Proceedings* 2115, 030074 (2019), Impact Factor: 0.4**
<https://doi.org/10.1063/1.5112913>

24) Mechanical and Thermal Studies of Brilliant Green Dye Doped PVA Polymer Composite,
Mallikarjun. H. Anandalli, R.F Bhajantri, Sunil G. Rathod, Kanakaraj. T. M, Chetan Chavan,
Shivaprasad Chalawadi, ***AIP Conference Proc* 2115, 030222 (2019), Impact Factor: 0.4**
<https://doi.org/10.1063/1.5113061>

- 25) Effect of temperature on transport properties of Zinc based Solid Polymer Electrolytes
Jagadish Naik, Vinayak Naik, Madhavi Nandimath, R. F. Bhajantri
AIP Conference Proceedings 2115, 030580 (2019), Impact Factor: 0.4
<https://doi.org/10.1063/1.5113419>
- 26) Dopant Dependent Microstructural and Fluorescence Properties of Biodegradable Polymer Films for DSSC application.
R Padmakumari, V Ravindrachary, B K Mahantesha, R Sahanakumari, R F Bhajantri, and Mallikarjun H Anandalli.
Journal of Physics: Conf. Series 1172 (2019) 012079, Impact Factor: 0.55
<https://doi.org/10.1088/1742-6596/1172/1/012079>
- 27) Conductivity & free volume studies on bismuth sulfide/PVA:Polypyrrole nanocomposites.
V Hebbar, H B Ravikumar, M Nandimath, S Masti, L M Munirathnamma,
J Naik & R F Bhajantri, *Indian Journal of Physics (February 2019) 93(2)147-158, Impact Factor: 1.407, Citation: 05*
<https://doi.org/10.1007/s12648-018-1280-7>
- 28) Effect of amino anilines on the fluorescence of coumarin derivative.
J.M. Nirupama, N.I. Khanapurmath, L.S. Chougala, L.A. Shastri, R.F. Bhajantri,
M.V. Kulkarni, J.S. Kadadevarmath,
Journal of Luminescence 208 (2019) 164-173 Impact Factor: 3.280, Citation:04
<https://doi.org/10.1016/j.jlumin.2018.12.038>
- 29) Effect of Rhodamine 6G dye on chromaticity co-ordinates and photoluminescence properties of TiO₂/PMMA polymer nanocomposites for LED applications
Madhavi Nandimath, Rajashekhar F. Bhajantri Jagadish Naik, Vidyashree Hebbar,
Journal of Luminescence 207 (2019) 571-584 Impact Factor: 3.280, Citation:10
<https://doi.org/10.1016/j.jlumin.2018.11.048>
- 30) Role of free volumes in conducting properties of GO and rGO filled PVA-PEDOT:PSS composite free standing films: A positron annihilation lifetime study
Vidyashree Hebbar, R.F. Bhajantri, H.B. Ravikumar, S. Ningaraju.
Journal of Physics and Chemistry of Solids 126 (2019) 242-256
Impact Factor: 3.442, Citation: 12,
<https://doi.org/10.1016/j.jpcs.2018.11.014>

2018

- 31) Drastic Reduction in the Band gap – A Novel Material for Plastic Electronics
Ishwar Naik, R.F. Bhajantri
Materials Today: Proceedings 5 (2018) 21523-21528, Impact Factor: 0.97
<https://doi.org/10.1016/j.matpr.2018.06.564>

- 32) Nano tuned conducting polymer for plastic solar cell
Ishwar Naik, R. F. Bhajantri, Vinayak Bhat, B.S Patil
IOP Conf. Series: Materials Science and Engineering 396 (2018) 012048
Impact Factor: 0.53,
DOI:10.1088/1757-899X/396/1/012048
- 33) Influence of ZrO₂ filler on physico-chemical properties of PVA/NaClO₄ polymer composite electrolytes, Jagadish Naik, R. F. Bhajantri, Vidyashree Hebbar, Sunil G. Rathod
Advanced Composites and Hybrid Materials 1, 518–529 (2018)
<https://doi.org/10.1007/s42114-018-0030-9>
- 34) Role of ZrO₂ on Physico-Chemical Properties of PVA/NaClO₄ Composites for Energy Storage Applications
Jagadish Naik, R.F. Bhajantri, T. Sheela, Sunil G. Rathod
Polymer Composites 39,1273-1282(2018) Impact factor: 2.265, Citation: 04
<https://doi.org/10.1002/pc.24063>
- 35) Impact of ceria nanofillers on temperature dependent electrical and transport properties of PVA solid polymer electrolyte films
Jagadish Naik and R F Bhajantri
Materials Research Express 5 065310 (2018) Impact Factor: 1.151, Citation: 02
<https://doi.org/10.1088/2053-1591/aac8bc>
- 36) Modification of fluorescence and optical properties of Rhodamine B dye doped PVA/Chitosan polymer blend films
R. Padmakumari, V. Ravindrachary, B. K. Mahantesha, Rohan N. Sagar, R. Sahanakumari, and R. F. Bhajantri
AIP Conference Proceedings 1953, 030248 (2018), Impact Factor: 0.4
<https://doi.org/10.1063/1.5032583>
- 37) Inhibition and quenching effect on positronium formation in metal salt doped polymer blend
S. D. Praveena, V. Ravindrachary, Ismayil, R. F. Bhajantri, A. Harisha, B. Guruswamy, Shreedatta Hegde, and Rohan N. Sagar
AIP Conference Proceedings 1942, 080004 (2018), Impact Factor: 0.4
<https://doi.org/10.1063/1.5028838>
- 38) Physico-chemical properties of PMMA/ZnO nanocomposite capped with 1-chloro-9,10-bis (phenyl ethynyl) anthracene,
M Anandalli, T. M. Kanakaraj, Vidyashree Hebbar, Jagadish Naik, R. F. Bhajantri
AIP Conference Proceedings 1953, 030189 (2018), Impact Factor: 0.4
<https://doi.org/10.1063/1.5032524>
- 39) Conductivity study of thermally stabilized RuO₂/polythiophene nanocomposites
Vidyashree Hebbar and R. F. Bhajantri
AIP Conference Proceedings 1942, 040007 (2018), Impact Factor: 0.4, Citation: 01
<https://doi.org/10.1063/1.5028616>

40) Physical and electrochemical studies on ceria filled PVA Proton conducting polymer Electrolyte for Energy Storage Applications,
Jagadish Naik, R. F. Bhajantri,
***Journal of Inorganic and Organometallic Polymers & Materials* 28, 906–919
(2018) Impact Factor: 1.754, Citation: 12**
<https://doi.org/10.1007/s10904-018-0801-3>

2017

41) Synthesis and dielectric investigations of bismuth sulfide particles filled PVA: Polypyrrole core-shell nanocomposites,
Vidyashree Hebbar, R. F. Bhajantri,
***Materials Science & Engineering B*, 224, 171–180, (2017)
Impact Factor: 3.316, Citation: 06,**
<http://dx.doi.org/10.1016/j.mseb.2017.08.001>

42) Development and characterization study of silk fibre reinforced PVA composites,
Sareen Sheik, G. K. Nagaraja, Jagadish Naik, R. F. Bhajantri
***Int J Plast Technol* 21(1):108–122 (2017) (DOI 10.1007/s12588-017-9174-7)**
<https://doi.org/10.1007/s12588-017-9174-7>

43) Influence of graphene nanoparticles on optical and dielectric properties of PVA/PEDOT: PSS blend composite,
Vidyashree Hebbar, R. F. Bhajantri, and Jagadish Naik
***AIP Conference Proceedings* 1832, 050046 (2017), Impact Factor: 0.4**
<http://dx.doi.org/10.1063/1.4980279>

44) Effect of Al₂O₃ on dielectric behavior of LiClO₄/PVA polymer electrolytes,
Jagadish Naik, R. F. Bhajantri, Sheela T and Vidyashree Hebbar
***AIP Conference Proceedings* 1832, 040017 (2017), Impact Factor: 0.4**
<http://dx.doi.org/10.1063/1.4980219>

45) Physico-chemical properties of Bismuth nitrate filled PVA–LiClO₄ polymer composites for energy storage applications,
Vidyashree Hebbar, R. F. Bhajantri, Jagadish Naik,
***J Mater Sci: Mater Electron* 28, 5827–5839 (2017) Impact Factor: 2.324, Citation: 18**
<https://doi.org/10.1007/s10854-016-6254-y>

46) Perylene Tuned Spectral Response of MDMO-PPV for Plastic Solar Cell
Ishwar Naik, R. F. Bhajantri,
***Advanced Science Letters*, 23, 1892-1894 (2017) Impact factor: 1.253**
<https://doi.org/10.1166/asl.2017.8516>

2016

47) Ionic conductivity and free volume related microstructural properties of LiClO₄/PVA/NaAlg polymer composites: Positron annihilation spectroscopic studies
T. Sheela, R.F. Bhajantri, P.M.G. Nambissan, V. Ravindrachary, Blaise Lobo, Jagadish Naik, Sunil G. Rathod, ***Journal of Non-Crystalline Solids* 454 (2016) 19–30,
Impact factor: 2.6, Citation:10, <https://doi.org/10.1016/j.jnoncrysol.2016.10.010>**

- 48) High Mechanical and pressure sensitive dielectric properties of Graphene Oxide doped PVA Nanocomposites
Sunil G. Rathod, R. F. Bhajantri, V. Ravindrachary, Jagadish Naik, D.J Madhu Kumar
RSC Advances Vol. 6 (2016) 77977–77986, **Impact factor: 3.070, Citation: 10**
<https://doi.org/10.1039/C6RA16026C>
- 49) Influence of Transport Parameters on Conductivity of LiClO₄ doped PVA/CS composites
Sunil G. Rathod, **R. F. Bhajantri**, V. Ravindrachary, Boja Poojary, P. K. Pujari, T. Sheela, Jagadish Naik
Journal of Elastomers & Plastics Vol. 48(5) 442–455 (2016)
Impact factors: 0.714, Citation:05
<https://journals.sagepub.com/doi/abs/10.1177/0095244315580457>
- 50) Synthesis and characterization of multifunctional ZnBr₂/PVA polymer dielectrics
Jagadish Naik, R. F. Bhajantri, Sunil G. Rathod, T. Sheela and V. Ravindrachary,
Journal of Advanced Dielectrics, Vol. 6, No. 4, 1650028 (9 pages) (2016)
Impact factors: 0.870, Citation: 08
<https://doi.org/10.1142/S2010135X16500284>
- 51) Thiazole yellow G dyed PVA films for optoelectronics: microstructural, thermal and photophysical studies.
Vidyashree Hebbar, R. F. Bhajantri, Jagadish Naik, Sunil G Rathod
Materials Research Express Vol 3 (2016) 075301 **Impact Factor: 1.41, Citation: 12**
DOI:10.1088/2053-1591/3/7/075301
- 52) Dopant-Induced microstructural, optical & electrical properties of TiO₂/PVA Composite
S.D. Praveena, V. Ravindrachary, R. F. Bhajantri, Ismayil
Polymer Composites 37, 987–997, 2016, **IF: 1.943, Citation: 30**
<https://doi.org/10.1002/pc.23258>
- 53) Optically tuned poly (3hexylthiophene2,5diyl) P3HT/PCBM (modified fullerene) blend for plastic solar cell
Ishwar Naik, R.F. Bhajantri, Lohit Naik, B. S. Patil, U.P. Shetti, Sunil Rathod, J. Naik
Nanosystems-Physics, Chemistry, Mathematics, 7 (4) 691–694 (2016) **Citation: 02**
- 54) Spectrally Tuned P3HT/TCNQ Bulk P-N Junction Blend for Plastic Solar Cell
Ishwar Naik, R.F. Bhajantri
Materials Today: Proceedings 3 (2016) 3608–3613, **Impact Factor: 0.97, Citation:02**
<https://doi.org/10.1016/j.matpr.2016.11.002>

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