

Mohd. Hanief Najar

Ph.D. (NIT Srinagar), M.Sc. (KU), NET (CSIR-UGC)

Batwina Via Sumbal Sonawari

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PIN: 193501, J&K, India.

Present: Assistant Professor (Chemistry), Govt. College of Engineering and Technology Safapora Ganderbal

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Dr. Mohd. Hanief Najar is an Assistant professor in the Department of Chemistry, Govt. College of Engineering and Technology Safapora, Ganderbal. He did his Master's from University of Kashmir and pursued his Ph. D. in the field of Material Sciences (Nano Sciences) from the Department of Chemistry, National Institute of Technology Srinagar, Kashmir. He has qualified National Eligibility Test (NET) conducted by joint CSIR-UGC, New Delhi. He has published more than 10 research articles in the Journals of high repute. Moreover, He presented a number of research papers in International, National and Regional Conferences. He also presented papers in National Seminars and Symposiums. Furthermore, participation in many National level Workshops also adds to his credit. His research interest's lies in the areas of Photoadduct and Ferrite based Nano-materials and their Nano-composites with conducting polymers, Graphene based materials for EMI shielding, adsorption and in the waste water treatment.

(A) Educational Qualifications

Degree	Division	Year of Passing	Institute/University
Ph.D.	Grade A	2016	NIT Srinagar
M.Sc.	First	2010	KU
B.Sc.	First	2008	ICSC-KU
B.Ed.	First	2011	KU

(B) NET Exam

Qualified National Eligibility Test (NET) for Lectureship in 2011 conducted by Joint CSIR-UGC.

(C) Area of Specialization

- ❖ Inorganic Chemistry

(D) Area of Research

- ❖ Conducting Polymer Nanocomposite materials
- ❖ Metal Complexes and Photo adducts
- ❖ Metal oxides and Ferrite nanoparticles
- ❖ Metal nanoparticles
- ❖ Graphene based nanomaterial's

(E) Areas of Expertise

- ❖ Characterization techniques: UV-Visible, FTIR spectroscopy, XRD, SEM, TEM, EDX.
- ❖ Properties: Dielectric, optical, electronic, Magnetic, Thermal and Mechanical. Moreover, EMI Shielding, adsorption, photo catalysis and Waste water treatment.

(F) Experience

- ❖ Teaching Experience : 5 years

(G) Project (Fellowship)

Worked as Junior Research Fellow (JRF) in a DST Sponsored Project entitled, "Photo adduct based Nanocomposite: Synthesis, Characterization, Electrical, Thermal and Mechanical Properties" vide number SR/NM/NS-97/2008, Dated: 02-06-2010 sanctioned under Nano Mission by DST, GOI with a financial support of 25 lacs.

(H) Training Programme's

- "Three week Orientation Programme (from 26th April, 2017)"
Conducted by Institute of Advanced studies in Education (Govt. College of Education) Srinagar, J&K.
- "One Month Orientation Programme (06-Sept. to 06-Oct. 2017)"
Conducted by UGC-Human Resource Development Centre, University of Kashmir, J&K.

(I) Publications

Journal Papers

1. **Mohd. Hanief Najar**, Kowsar Majid; Synthesis, Characterization, Electrical and Thermal properties of Nanocomposite of polythiophene with

- nanophotoadduct: A potent composite for electronic use, 2013, 24, 4332-4339, *J. Mater. Sci.: Mater. In Electron.* (Springer, IF= 2.02).
2. Mohd. Hanief Najar, Kowsar Majid; Nanocomposite of polypyrrole with the nanophotoadduct of Sodium pentacyanonitrosylferrate (II) dihydrate and EDTA: A potential candidate for Capacitor and a Sensor for HF radio wave detection, 2014, 198, 76-83, *Synth. Met.* (Elsevier, IF= 2.43).
 3. Mohd. Hanief Najar, Kowsar Majid; Synthesis and characterization of nanocomposite of polythiophene with $\text{Na}_2[\text{Fe}(\text{CN})_3(\text{OH})(\text{NO})\text{C}_6\text{H}_{12}\text{N}_4] \cdot \text{H}_2\text{O}$: A potent material for EMI shielding applications, 2015, 26, 6458-6470, *J. Mater. Sci.: Mater. In Electron.* (Springer, IF= 2.02).
 4. Rafia Mushtaq, Mohd. Hanief Najar, Kowsar Majid, M. Abdullah Dar; Synthesis and Thermal Degradation behavior of the Complexes of Monoethanolamine with Co (II), Ni (II), Zn (II) and Cd (II): A Comparative Study, 2015, 81, 31936-31939, *Chem. Phys. Letters* (Elixir).
 5. Mohd. Hanief Najar, Kowsar Majid; Enhanced photocatalytic activity exhibited by PTh/ $[\text{Fe}(\text{CN})_3(\text{NO})(\text{bpy})] \cdot 4\text{H}_2\text{O}$ nanocomposite fibers via a synergistic approach, 2015, 5, 107209-107221, *RSC. Adv.* (Royal Society of Chemistry, IF= 3.1).

6. M. Abdullah Dar, Kowsar Majid, **Mohd. Hanief Najar**, R.K. Kotnala, Jyoti Shah; Synthesis and characterization of $\text{Li}_{0.5}\text{Fe}_{2.5-x}\text{Gd}_x\text{O}_4$ ferrite nanoparticles as a potential candidate for microwave device applications, **2016**, **90**, 443–452, **Materials and Design (Elsevier, IF=4.36)**.
7. **Mohd. Hanief Najar**, Kowsar Majid; Investigation of the Transport properties of PPy/[Fe(EDTA)(NH₃)Cl] H₂O nanocomposite prepared by chemical oxidation method, **2016**, **6**, 25449–25459, **RSC. Adv. (Royal Society of Chemistry, IF=3.1)**.
8. M. Abdullah Dar, Kowsar Majid, **Mohd. Hanief Najar**, R. K. Kotnala, Jyoti Shah, S. K. Dhawan, M. Farukh; Surfactant assisted synthesis of Polythiophene/ $\text{Ni}_{0.5}\text{Zn}_{0.5}\text{Fe}_{2-x}\text{Ce}_x\text{O}_4$ ferrite composites: Study of structural, dielectric and magnetic properties for EMI shielding applications, **2017**, **19**, 10629–10643, **Phys. Chem. Chem. Phys. (Royal Society of Chemistry, IF=4.1)**.
9. **Mohd. Hanief Najar**, Kowsar Majid, M. Abdullah Dar; Electric modulus based relaxation dynamics, ac-conductivity and I-V characteristics in PTh/[Co(EDTA)NH₃Cl] H₂O nanocomposite prepared by chemical oxidation method, **2017**, doi:10.1007/s10854-017-6913-7, **J. Mater. Sci.: Mater. In Electron. (Springer, IF= 2.02)**.

10. **Mohd. Hanief Najar**, Mubashir Koul, Kowsar Majid, Study of optical and electrical properties of $[\text{Co}(\text{NH}_3)_3(\text{C}_{12}\text{H}_8\text{N}_2)\text{Cl}]\text{Cl}_2$ prepared by a photochemical route, 2017, 104, 45782-45784, *Applied Chemistry (Elixir)*.
11. **Mohd. Hanief Najar**, Synthesis, Characterization and I-V characteristics in $[\text{Co}(\text{NH}_3)_4(\text{C}_3\text{H}_4\text{N}_2)\text{Cl}]\text{Cl}_2$ prepared by a photochemical route, 2018, 1(2), 1-4, JK Knowledge Initiatives (HED).
12. **Mohd. Hanief Najar**, Kowsar Majid, M. Abdullah Dar, Apparent colossal dielectric constant in $\text{Na}[\text{Fe}(\text{CN})_4(\text{C}_3\text{H}_4\text{N}_2)\text{NO}] \cdot 2\text{H}_2\text{O}$ embedded PTh nano strips for energy storage applications, 2018, 4(1), 09-14, *Appl. Sci. Lett. (ASP)*.

International, National and Regional Conferences

1. **Mohd. Hanief Najar**, Kowsar Majid. Synthesis, characterization and application of photoadduct of sodium nitroprusside and hexamine as dopant in polythiophene composite, "National Conference on Recent Trends in Material Science Research", (Organized by NIT Srinagar on 3-5 September -2012).
2. **Mohd. Hanief Najar**, Kowsar Majid. Composite of Polythiophene with the photoadduct of Sodium nitroprusside and Imidazole: Synthesis and

Characterization, "**Ninth JK Science Congress 2013 & Regional Science Congress**", (Organized by University of Kashmir on 1-3 October-2013).

3. **Mohd. Hanief Najar**, Kowsar Majid. Synthesis and characterization of nanocomposite of Polythiophene with photoadduct of Sodium pentacyanonitrosylferrate(II) dihydrate and hexamine: Study of thermal and electrical properties, "**5th International conference on applied physical, chemical sciences, mathematical and statistical and environmental sciences**", (Organized by Krishi Sanskriti at JNU on 2-3 May -2015)
4. **Mohd. Hanief Najar**, Kowsar Majid, M. Abdullah Dar. Study of structural and electrical properties of Gd doped Li- ferrite nano-crystals synthesized by chemical route method, "**National Conference on "Advances in materials and material processing"**", (Organized by NIT Srinagar on 21-23 May-2015).
5. M. Abdullah Dar, **Mohd. Hanief Najar**, Kowsar Majid. Study of dye adsorbing properties of $\text{Ni}_{0.5}\text{Zn}_{0.5}\text{Fe}_2\text{O}_4$ ferrite nano crystals synthesized by sol gel method, "**National Conference on "Advances in materials and material processing"**", (Organized by NIT Srinagar on 21-23 May-2015).
6. **Mohd. Hanief Najar**, Kowsar Majid. Synthesis and EMI shielding properties of PANI/Ferrite nano-composites using chemical oxidative polymerization

method "11th JK Science Congress 2015", (Organized by University of Kashmir on 12-14 October-2015).

7. **Mohd. Hanief Najar**, Kowsar Majid. Investigation of the Transport properties of PPy/[Fe(EDTA)(NH₃)Cl] H₂O nanocomposite prepared by chemical oxidation method "**International Conference on Nanotechnology and STEM-ER 2016**", (Organized by Aligarh Muslim University and Ohio State University, USA on 12-15 March-2016).

(J) Workshops, Seminars and Symposiums

1. **Mohd. Hanief Najar**. Waste Water Treatment Effluent Management & its Recycling, "**UGC Sponsored National Level Workshop**", (Organized by Ghandi Memorial College Srinagar, J&K on 30- March-2013).
2. **Mohd. Hanief Najar**. National Mission on Education through Information communication Technology (NME-ICT), "**MHRD Sponsored Awareness Workshop**", (Organized by NIT Srinagar, J&K on 18-June-2013).
3. **Mohd. Hanief Najar**. Synthesis and characterization of nanomaterial's (SCNM-2016), "**TEQIP-II Sponsored National Level Workshop**", (Organized by Centre for Nano Science and Technology, JNT University Hyderabad during 14-18 March-2016).

4. **Mohd. Hanief Najar**. Seminar themed at "Chemistry, our life and our future on the eve of IYC 2011", (Organized by NIT Srinagar on 15-November-2011).
5. **Mohd. Hanief Najar**. Received certificate of appreciation in a Seminar on the eve of IYC 2011", (Organized by Department of Chemistry, University of Kashmir in the year-2011).
6. **Mohd. Hanief Najar**. Awarded first best speaker in the Seminar Activity in M.Sc. Curriculum (2010).
7. **Mohd. Hanief Najar**. Modern Trends in Chemistry and Chemistry Education "Two day Science Academies Lecture Workshop-2017" (Organized by University of Kashmir, Srinagar on 19-20 July 2017).
8. **Mohd. Hanief Najar**, Ishtiyaq Ahmed Najar. Characterization of solid waste generated at Doodhpathri (Budgam), (J&K), India "One Day National Seminar-2017 on Biodiversity and Climate Change: Challenges and Prospects" (Organized by Govt. SAM Degree College Budgam, J&K on 26 Oct. 2017).
9. **Mohd. Hanief Najar**, Ishtiyaq Ahmed Najar. An EMI shield based on $\text{Ni}_{0.5}\text{Zn}_{0.5}\text{Fe}_{2-x}\text{Ce}_x\text{O}_4/\text{PTh}$ nanocomposites prepared by in situ emulsion polymerization "Two day National Symposium on Frontiers in Chemical

Sciences (FICS)-2017” (Organized by Govt. Degree College Sopore on 4-5 Nov. 2017).

10. **Mohd. Hanief Najar.** Disaster Resilience of Kashmir in the Face of Climate Change **“RUSA Sponsored Three day National Workshop”** (Organized by Abdul Ahad Azad Memorial Degree College Bemina on 13-15 Nov. 2017).

(K) Service Posting's

- Amar Singh College, Gogji Bagh Srinagar-190001 (07 April to 22 May 2017)
- Govt. Degree College Ganderbal-191201 (23 May 2017 to 03 Feb 2018)
- Govt. College of Engineering and Technology Safapora Ganderbal-193504 (05 Feb 2018 to Present)

(L) Personal Profile

Father's Name	Ab. Rehman Najar
Mother's Name	Mrs. Fareeda
Date of Birth	30-04-1984
Sex	Male
Nationality	Indian
Marital Status	Unmarried
Linguistic Ability	English, Kashmiri, Urdu, Hindi.
Hobbies	Reading
Permanent Address	Batwina; Tehsil: Wakura; Distt.: Ganderbal. Pin 193501; J&K, India.
Email	haniefarf@gmail.com;hanief_08phd11@nitsri.net

References:

- Dr. Kowsar Majid, Department of Chemistry, National Institute of Technology Srinagar, Hazratbal Srinagar-190006, J&K India
- Principal, GDC Ganderbal-191201, J&K India
- Principal, Govt. College of Engineering and Technology Safapora Ganderbal-193504 (Temporary Campus at GDC Sumbal-193501), J&K India

DECLARATION

I hereby, solemnly declare that the above furnished information is true to the best of my knowledge and belief.

Place: Ganderbal

**Sd-
(Dr. Mohd. Hanief Najar)**