PERSONAL INFORMATION:

Full Name: Hossein Yousefi

Nationality: Iranian

Academic Level: Associate Prof.

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EDUCATION:

- **Major:** Wood and Paper Engineering (Renewable Nanomaterials and Nanocomposites)
- Graduated in BSc (2002), Gorgan University of Agricultural Sciences and Natural Resources (GUASNR), Iran.
- Graduated in MSc (2006), University of Tehran, Iran.
- Graduated in Ph.D. (2010) University of Tehran, Iran. [GPA 19.03 Out of 20]
- **Sabbatical period:** 10 Months at Kobe University, Japan

RESEARCH INTEREST:

- Renewable Nanomaterials and Nanocomposite: Production, Properties and Application

PUBLICATION (ISI):

No.	Title	Year	Quartile
1	Smart Wearable Nanopaper Patch for Continuous Multiplexed Optical Monitoring of Sweat Parameters. AR Sharifi, S Ardalan, RS Tabatabaee, S Soleimani Gorgani, H Yousefi, ... Analytical Chemistry	2023	Q1
2	Ionic Liquid/ZnO Assisted Preparation of High Barrier Cellulose Nanocomposite Films by In Situ Ring-Opening Polymerization of Lactide Monomers	2023	Q2

	E Amini, C Valls, **H Yousefi**, MB Roncero Journal of Polymers and the Environment 31 (6), 2576-2594		
3	Simultaneous/direct chemomechanical densification and downsizing of weak paulownia wood to produce a strong, unidirectional, all-wooden nanocomposite E Kaffashsaei, **H Yousefi**, T Nishino, T Matsumoto, M Mashkour, ... Polymer Journal 55 (6), 691-702	2023	Q2
4	Binderless Self-densified 3 mm-Thick Board Fully Made from (Ligno) cellulose Nanofibers of Paulownia Sawdust E Kaffashsaei, **H Yousefi**, T Nishino, T Matsumoto, M Mashkour, ... Waste and Biomass Valorization, 1-13	2023	Q2
5	Toward wheat straw valorization by its downsizing to five types of cellulose nanomaterials and nanopapers thereof MD Ghalehno, **H Yousefi** Waste and Biomass Valorization, 1-12	2023	Q2
6	A smart nanopaper sensor for optical diagnosis of Helicobacter pylori infection ZA Adib, AR Sharifi, MA Kiani, **H Yousefi**, D Horák, U Kostiv, ... Materials Advances	2023	Q1
7	Nanopapers toward Green Photonic and Optical Applications AR Sharifi, T Naghdi, **H Yousefi**, MA Kiani, H Golmohammadi ACS Sustainable Chemistry & Engineering 10 (51), 16995-17026	2022	Q1
8	Nanocrystalline cellulose based on chitosan hydrogel structure as a biological adsorbent for effluent of fish culture farms F Darabitabar, V Yavari, A Hedayati, M Zakeri, **H Yousefi** Environmental Science and Pollution Research 29 (55), 83770-83782	2022	Q2
9	Green nanocomposite made from carboxymethyl cellulose reinforced with four types of cellulose nanomaterials of wheat straw MD Ghalehno, **H Yousefi** Journal of Applied Polymer Science 139 (34), e52802	2022	Q2
10	A 3D printable dynamic nanocellulose/nanochitin self-healing hydrogel and soft strain sensor P Heidarian, S Gharaie, **H Yousefi**, M Paulino, A Kaynak, R Varley, ... Carbohydrate Polymers 291, 119545	2022	Q1
11	Rheological properties of wood/bacterial cellulose and chitin nano-hydrogels as a function of concentration and their nano-films properties	2022	Q4

	H Jannatamani, A Motamedzadegan, M Farsi, **H Yousefi** IET nanobiotechnology 16 (4), 158-169		
12	The influence of pulping process and energy consumption on properties of nanofibrillated lignocellulose (NFLC) films isolated from wheat straw B Moezzipour, S Hedjazi, **H Yousefi**, M Ahmadi Drvna industrija 72 (4), 327-336	2021	Q2
13	Chitin nanofiber-based nanocomposites containing biodegradable polymers for food packaging applications M Heidari, M Khomeiri, **H Yousefi**, M Rafieian, M Kashiri Journal of Consumer Protection and Food Safety 16 (3), 237-246	2021	Q3
14	Direct conversion of raw wood to TEMPO-oxidized cellulose nanofibers E Kaffashsaie, **H Yousefi**, T Nishino, T Matsumoto, M Mashkour, ... Carbohydrate Polymers 262, 117938	2021	Q1
15	Dynamic nanohybrid-polysaccharide hydrogels for soft wearable strain sensing P Heidarian, **H Yousefi**, A Kaynak, M Paulino, S Gharaie, RJ Varley, ... Sensors 21 (11), 3574	2021	Q1
16	Effect of bagasse lignocellulose microfibers on sand stabilization: A laboratory study M Mombeni, HR Asgari, AM Behbahani, S Zare, **H Yousefi** Aeolian Research 49, 100654	2021	Q1
17	Dynamic mussel-inspired chitin nanocomposite hydrogels for wearable strain sensors P Heidarian, AZ Kouzani, A Kaynak, A Zolfagharian, **H Yousefi** Polymers 12 (6), 1416	2020	Q1
18	Novel cellulose nanofiber aerogel for aquaculture wastewater treatment F Darabitabar, V Yavari, A Hedayati, M Zakeri, **H Yousefi** Environmental Technology & Innovation 18, 100786	2020	Q2
19	Chitin nanofiber paper toward optical (bio) sensing applications T Naghdi, H Golmohammadi, **H Yousefi**, M Hosseinifard, U Kostiv, ... ACS applied materials & interfaces 12 (13), 15538-15552	2020	Q1
20	Nanopaper-based sensors T Naghdi, **H Yousefi**, AR Sharifi, H Golmohammadi Comprehensive analytical chemistry 89, 257-312	2020	Q4

21	A study on the thermal and mechanical properties of composites made of nanolignocellulose and Pebax® polymer M Farsi, A Tavasoli, **H Yousefi**, HZ Tabari Journal of Thermoplastic Composite Materials 32 (11), 1509-1524	2019	Q3
22	Isolation of lignocellulose nanofiber from recycled old corrugated container and its interaction with cationic starch–nanosilica combination to make paperboard SM Yousefhashemi, A Khosravani, **H Yousefi** Cellulose 26, 7207-7221	2019	Q1
23	MWCNT-coated cellulose nanopapers: Droplet-coating, process factors, and electrical conductivity performance M Mashkour, M Sharifinia, **H Yousefi**, E Afra Carbohydrate polymers 202, 504-512	2018	Q1
24	The combined effect of Carum copticum (ajwain) and Foeniculum vulgare (fennel) essential oils on Escherichia coli and Clostridium sporogenes using checkerboard assay M Heidari Soureshjani, M Khomeiri, Y Maghsoudlou, **H Yousefi**, ... Applied Microbiology In Food Industries 4 (2)	2018	Q3
25	Improved antifungal activity and stability of chitosan nanofibers using cellulose nanocrystal on banknote papers LM Amirabad, M Jonoobi, NS Mousavi, K Oksman, A Kaboorani, **H Yousefi** Carbohydrate polymers 189, 229-237	2018	Q1
26	Direct mechanical production of wood nanofibers from raw wood microparticles with no chemical treatment **H Yousefi**, V Azari, A Khazaeian Industrial crops and products 115, 26-31	2018	Q1
27	Cellulose nanofiber board **H Yousefi**, S Azad, M Mashkour, A Khazaeian Carbohydrate polymers 187, 133-139	2018	Q1
28	Interaction between nanofibrillated cellulose with guar gum and carboxy methyl cellulose in low-fat mayonnaise L Golchoobi, M Alimi, S Shokoohi, **H Yousefi** Journal of Texture Studies 47 (5), 403-412	2016	Q3
29			

30	Preparation and characterization of nanofibrillated Cellulose/Poly (Vinyl Alcohol) composite films B Kord, B Malekian, **H Yousefi**, A Najafi Maderas. Ciencia y tecnología 18 (4), 743-752	2015	Q2
31	Green in-situ synthesized silver nanoparticles embedded in bacterial cellulose nanopaper as a bionanocomposite plasmonic sensor N Pourreza, H Golmohammadi, T Naghdi, **H Yousefi** Biosensors and Bioelectronics 74, 353-359	2015	Q1
32	Nanopaper as an optical sensing platform E Morales-Narváez, H Golmohammadi, T Naghdi, **H Yousefi**, U Kostiv, ... ACS nano 9 (7), 7296-7305	2014	Q1
33	Green bionanocomposite based on kefiran and cellulose nanocrystals produced from beer industrial residues I Shahabi-Ghahfarrokhi, F Khodaiyan, M Mousavi, **H Yousefi** International journal of biological macromolecules 77, 85-91	2014	Q1
34	Direct solvent nanowelding of cellulose fibers to make all-cellulose nanocomposite **H Yousefi**, M Mashkour, R Yousefi Cellulose 22, 1189-1200	2014	Q1
35	Preparation and characterization of nanocellulose from beer industrial residues using acid hydrolysis/ultrasound I Shahabi-Ghahafarrokhi, F Khodaiyan, M Mousavi, **H Yousefi** Fibers and Polymers 16, 529-536	2014	Q2
36	Effect of γ-irradiation on the physical and mechanical properties of kefiran biopolymer film I Shahabi-Ghahfarrokhi, F Khodaiyan, M Mousavi, **H Yousefi** International journal of biological macromolecules 74, 343-350	2014	Q1
37	Preparation of UV-protective kefiran/nano-ZnO nanocomposites: Physical and mechanical properties I Shahabi-Ghahfarrokhi, F Khodaiyan, M Mousavi, **H Yousefi** International journal of biological macromolecules 72, 41-46	2014	Q1
38	Properties of chemi-mechanical pulp filled with nanofibrillated and microcrystalline cellulose E Afra, **H Yousefi**, SA Lakani Journal of Biobased Materials and Bioenergy 8 (5), 489-494	2014	Q3

39	Effects of hemicellulose pre-extraction and cellulose nanofiber on the properties of rice straw pulp H Hasanjanzadeh, S Hedjazi, A Ashori, S Mahdavi, **H Yousefi** International journal of biological macromolecules 68, 198-204	2013	Q1
40	Strong highly anisotropic magnetocellulose nanocomposite films made by chemical peeling and in situ welding at the interface using an ionic liquid M Mashkour, M Tajvidi, F Kimura, H Yousefi, T Kimura ACS applied materials & interfaces 6 (11), 8165-8172	2013	Q1
41	All-cellulose nanocomposite film made from bagasse cellulose nanofibers for food packaging application M Ghaderi, M Mousavi, **H Yousefi**, M Labbafi Carbohydrate polymers 104, 59-65	2013	Q1
42	Comparative effect of mechanical beating and nanofibrillation of cellulose on paper properties made from bagasse and softwood pulps E Afra, **H Yousefi**, MM Hadilam, T Nishino Carbohydrate polymers 97 (2), 725-730	2012	Q1
43	Water-repellent *all*-cellulose nanocomposite using silane coupling treatment **H Yousefi**, T Nishino, A Shakeri, M Faezipour, G Ebrahimi, M Kotera Journal of Adhesion Science and Technology 27 (12), 1324-1334	2012	Q2
44	Comparative study of paper and nanopaper properties prepared from bacterial cellulose nanofibers and fibers/ground cellulose nanofibers of canola straw **H Yousefi**, M Faezipour, S Hedjazi, MM Mousavi, Y Azusa, AH Heidari Industrial Crops and Products 43, 732-737	2012	Q1
45	The effect of Na+ montmorillonite (NaMMT) nanoclay on thermal properties of medium density fiberboard (MDF) R Zahedsheijani, M Faezipour, A Tarmian, M Layeghi, **H Yousefi** European Journal of Wood and Wood Products 70 (5), 565	2012	Q2
46	Direct Fabrication of *all*-Cellulose Nanocomposite from Cellulose Microfibers Using Ionic Liquid-Based Nanowelding **H Yousefi**, T Nishino, M Faezipour, G Ebrahimi, A Shakeri Biomacromolecules 12 (11), 4080-4085	2011	Q1
47	All-cellulose composite and nanocomposite made from partially dissolved micro-and nanofibers of canola straw **H Yousefi**, M Faezipour, T Nishino, A Shakeri, G Ebrahimi	2010	Q2

	Polymer Journal 43 (6), 559-564		
48	Mass transfer in medium density fiberboard (MDF) modified by Na+ montmorillonite (Na+ MMT) nanoclay R Zahedsheijani, H Gholamiyan, A Tarmian, **H Yousefi** Maderas. Ciencia y tecnología 13 (2), 163-172	2010	Q2
49	All-cellulose nanocomposite made from nanofibrillated cellulose **H Yousefi**, T Nishino, M Faezipour, G Ebrahimi, A Shakeri, S Morimune Advanced Composites Letters 19 (6), 096369351001900602	2010	Q2
50	Canola straw as a bio-waste resource for medium density fiberboard (MDF) manufacture **H Yousefi** Waste management 29 (10), 2644-2648	2009	Q1

ACADEMIC TEACHING EXPERIENCE:

- Renewable Nanomaterials and Nanocomposites (MSc).
- Laboratory of Renewable Nanomaterials and Nanocomposites (MSc).
- Applications of Modern and High Technologies in Renewable Materials (MSc).
- Quality Control (BSc).
- Bio-(nano)composites (PhD)

SERVICE AND PROFESSIONAL MEMBERSHIP:

- Associate Professor at GUASNR [2012-Ongoing]
- Head of the central laboratory, GUASNR [2013-2022]
- CEO at Nano Novin Polymer Co. **Website: www.nanonovin.com**
- Secretary of the HSE Council of the GUASNR, 2006-ongoing.
- Secretary of Central Laboratory Council of the University, 2006-ongoing.
- Member of Nanotechnology Committee of GUASNR.
- Member of the advisory committee for nanocellulose standard - TAPPI Institute, USA
- Member of the American Chemical Society (ID: 30222945)

AWARDS:

ACADEMIC HONORS

- Top 2% Highly-Cited Researcher of the World, 2023.

- Winner of the 6th Ahmadi Roshan National Prize for granting the project of “Nanocellulose-based Portable Water Purifier”. Funded by Iran's National Elites Foundation, 2022, Iran.
- Winner of the 7th Ahmadi Roshan National Prize for granting the project of “HEPA Filter Enhanced by Cellulose and Chitosan Nanofibers”. Funded by Iran's National Elites Foundation, 2023, Iran.
- Outstanding Doctoral Student National Award, Iran, 2011.
- Awarded for the Outstanding National PhD Dissertation of the Year, Iran. 2012.
- Awarded for the Distinguished Young Lecturer. The 6th International Conference of Green Composites- South Korea, 2010
- Distinguished Lecturer. 12th National Conference of Nanotechnology, Iran. 2013.
- Distinguished Researcher at University of Tehran- 2011.
- Distinguished Researcher, Faculty of Wood and Paper Sciences and Technology, GUASNR – 2018 & 2023.
- Awarded for high impact ISI paper of the year, GUASNR, 2022.
- Awarded for First-ranked Student at Ph.D. course with GPA of 19.03 out of 20, University of Tehran (2010).
- 3rd-ranked in the National MSc. Entrance Exam, Iran – 2002
- First-ranked in the Ph.D. entrance exam, University of Tehran, 2005.

Honors as CEO of Nano Novin Polymer Co.

- Received the certification of knowledge-based company, February 2009.
- Awarded for Outstanding Exporter of Knowledge-based Products (renewable nanomaterials), 2013.
- Outstanding Knowledge-based Firm of the Year Award, Mazandaran Province, Iran, 2013.
- Outstanding Knowledge-based Firm of the Year Award, Golestan Province, Iran, 2022.
- Distinguished Entrepreneur of the Year Award, GUASNR, Iran- 2021.

LANGUAGES:

- Farsi: Mother tongue
- English: Fluent