Hossein Yousefi

List of Publications by Year
in descending order

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110 papers	4,998 citations	76196 40 h-index	98622 67 g-index
111 all docs	111 docs citations	111 times ranked	5493 citing authors

#	Article	IF	Citations
1	Energy hub: From a model to a concept â€“ A review. Renewable and Sustainable Energy Reviews, 2017, 80, 1512-1527.	8.2	331
2	All-cellulose nanocomposite film made from bagasse cellulose nanofibers for food packaging application. Carbohydrate Polymers, 2014, 104, 59-65.	5.1	243
3	Optimal management of energy hubs and smart energy hubs â€“ A review. Renewable and Sustainable Energy Reviews, 2018, 89, 33-50.	8.2	218
4	Nanopaper as an Optical Sensing Platform. ACS Nano, 2015, 9, 7296-7305.	7.3	204
5	Multi-criteria decision support system for wind farm site selection using GIS. Sustainable Energy Technologies and Assessments, 2016, 13, 38-50.	1.7	198
6	Comparative study of paper and nanopaper properties prepared from bacterial cellulose nanofibers and fibers/ground cellulose nanofibers of canola straw. Industrial Crops and Products, 2013, 43, 732-737.	2.5	153
7	Green in-situ synthesized silver nanoparticles embedded in bacterial cellulose nanopaper as a bionanocomposite plasmonic sensor. Biosensors and Bioelectronics, 2015, 74, 353-359.	5.3	117
8	Techno-economic analysis of a grid-connected PV/battery system using the teaching-learning-based optimization algorithm. Solar Energy, 2020, 203, 69-82.	2.9	116
9	A review on floating photovoltaic (FPV) power generation units. Renewable and Sustainable Energy Reviews, 2019, 110, 332-347.	8.2	115
10	Biogas production potential from livestock manure in Iran. Renewable and Sustainable Energy Reviews, 2015, 50, 748-754.	8.2	112
11	Direct Fabrication ofall-Cellulose Nanocomposite from Cellulose Microfibers Using Ionic Liquid-Based Nanowelding. Biomacromolecules, 2011, 12, 4080-4085.	2.6	105
12	Comparative effect of mechanical beating and nanofibrillation of cellulose on paper properties made from bagasse and softwood pulps. Carbohydrate Polymers, 2013, 97, 725-730.	5.1	104
13	Multi-objective optimal component sizing of a hybrid ICE + PV/T driven CCHP microgrid. Applied Thermal Engineering, 2017, 122, 126-138.	3.0	98
14	Preparation of UV-protective kefiran/nano-ZnO nanocomposites: Physical and mechanical properties. International Journal of Biological Macromolecules, 2015, 72, 41-46.	3.6	96
15	Analysis of the robustness of energy supply in Japan: Role of renewable energy. Energy Reports, 2020, 6, 378-391.	2.5	92
16	Developing the geothermal resources map of Iran. Geothermics, 2010, 39, 140-151.	1.5	86
17	Spatial Site Selection for Solar Power Plants Using a GIS-Based Boolean-Fuzzy Logic Model: A Case Study of Markazi Province, Iran. Energies, 2018, 11, 1648.	1.6	86
18	All-cellulose composite and nanocomposite made from partially dissolved micro- and nanofibers of canola straw. Polymer Journal, 2011, 43, 559-564.	1.3	83

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19	Solar assisted ground source heat pump systems â€“ A review. Applied Thermal Engineering, 2019, 163, 114351.	3.0	83
20	Modeling landfill site selection by multi-criteria decision making and fuzzy functions in GIS, case study: Shabestar, Iran. Environmental Earth Sciences, 2016, 75, 1.	1.3	82
21	Energy and exergy analysis and optimal design of the hybrid molten carbonate fuel cell power plant and carbon dioxide capturing process. Energy Conversion and Management, 2015, 98, 15-27.	4.4	81
22	Direct conversion of raw wood to TEMPO-oxidized cellulose nanofibers. Carbohydrate Polymers, 2021, 262, 117938.	5.1	80
23	Numerical simulation of power production from abandoned oil wells in Ahwaz oil field in southern Iran. Geothermics, 2015, 55, 16-23.	1.5	79
24	GA/AHP-based optimal design of a hybrid CCHP system considering economy, energy and emission. Energy and Buildings, 2017, 138, 309-317.	3.1	78
25	Preparation and characterization of nanocellulose from beer industrial residues using acid hydrolysis/ultrasound. Fibers and Polymers, 2015, 16, 529-536.	1.1	77
26	Designing and optimization of solar assisted ground source heat pump system to supply heating, cooling and hot water demands. Geothermics, 2019, 82, 212-231.	1.5	76
27	Technical, economic, and performance analysis of a hybrid energy system using a novel dispatch strategy. Energy, 2020, 213, 118850.	4.5	70
28	Chitin Nanofiber Paper toward Optical (Bio)sensing Applications. ACS Applied Materials & Interfaces, 2020, 12, 15538-15552.	4.0	64
29	Effect of Î³-irradiation on the physical and mechanical properties of kefiran biopolymer film. International Journal of Biological Macromolecules, 2015, 74, 343-350.	3.6	61
30	Multi criteria site selection model for wind-compressed air energy storage power plants in Iran. Renewable and Sustainable Energy Reviews, 2014, 32, 579-590.	8.2	59
31	Green bionanocomposite based on kefiran and cellulose nanocrystals produced from beer industrial residues. International Journal of Biological Macromolecules, 2015, 77, 85-91.	3.6	59
32	Geothermal energy resources and development in Iran. Renewable and Sustainable Energy Reviews, 2009, 13, 1127-1132.	8.2	53
33	A novel framework for the potential assessment of utility-scale photovoltaic solar energy, application to eastern Iran. Energy Conversion and Management, 2017, 151, 240-258.	4.4	53
34	Modeling for diversifying electricity supply by maximizing renewable energy use in Ebino city southern Japan. Sustainable Cities and Society, 2017, 34, 371-384.	5.1	52
35	A review on parabolic trough/Fresnel based photovoltaic thermal systems. Renewable and Sustainable Energy Reviews, 2018, 91, 193-204.	8.2	51
36	Numerical modeling and economic analysis of a ground source heat pump for supplying energy for a greenhouse in Alborz province, Iran. Journal of Cleaner Production, 2016, 131, 145-154.	4.6	50

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37	Canola straw as a bio-waste resource for medium density fiberboard (MDF) manufacture. Waste Management, 2009, 29, 2644-2648.	3.7	49
38	DRASTIC framework improvement using Stepwise Weight Assessment Ratio Analysis (SWARA) and combination of Genetic Algorithm and Entropy. Environmental Science and Pollution Research, 2021, 28, 46704-46724.	2.7	47
39	Mechanical properties of polyvinyl alcohol sponge under different strain rates. International Journal of Materials Research, 2014, 105, 404-408.	0.1	41
40	Improved antifungal activity and stability of chitosan nanofibers using cellulose nanocrystal on banknote papers. Carbohydrate Polymers, 2018, 189, 229-237.	5.1	41
41	Interaction between Nanofibrillated Cellulose with Guar Gum and Carboxy Methyl Cellulose in Lowâ€Fat Mayonnaise. Journal of Texture Studies, 2016, 47, 403-412.	1.1	40
42	Direct mechanical production of wood nanofibers from raw wood microparticles with no chemical treatment. Industrial Crops and Products, 2018, 115, 26-31.	2.5	39
43	Direct solvent nanowelding of cellulose fibers to make all-cellulose nanocomposite. Cellulose, 2015, 22, 1189-1200.	2.4	37
44	Numerical simulation for obtaining optimal impellerâ€™s blade parameters of a centrifugal pump for high-viscosity fluid pumping. Sustainable Energy Technologies and Assessments, 2019, 34, 16-26.	1.7	36
45	Phase change materials in solar photovoltaics applied in buildings: An overview. Solar Energy, 2021, 224, 569-592.	2.9	35
46	Modifying the analysis made by water quality index using multi-criteria decision making methods. Journal of African Earth Sciences, 2018, 138, 309-318.	0.9	33
47	Cellulose nanofiber board. Carbohydrate Polymers, 2018, 187, 133-139.	5.1	32
48	Cascading uses of geothermal energy for a sustainable energy supply for Meshkinshahr City, Northwest, Iran. Geothermics, 2019, 79, 152-163.	1.5	32
49	Isolation of lignocellulose nanofiber from recycled old corrugated container and its interaction with cationic starchâ€“nanosilica combination to make paperboard. Cellulose, 2019, 26, 7207-7221.	2.4	31
50	Feasibility study and economical evaluations of geothermal heat pumps in Iran. Geothermics, 2018, 72, 64-73.	1.5	30
51	Water-repellentall-cellulose nanocomposite using silane coupling treatment. Journal of Adhesion Science and Technology, 2013, 27, 1324-1334.	1.4	29
52	Landfill Site Selection Using a Multi-Criteria Decision-Making Method: A Case Study of the Salafcheghan Special Economic Zone, Iran. Sustainability, 2018, 10, 1107.	1.6	29
53	GIS aided prediction of CO2 emission dispersion from geothermal electricity production. Journal of Cleaner Production, 2011, 19, 1982-1993.	4.6	27
54	Novel cellulose nanofiber aerogel for aquaculture wastewater treatment. Environmental Technology and Innovation, 2020, 18, 100786.	3.0	27

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55	CO2 emission and economic growth of Iran. Mitigation and Adaptation Strategies for Global Change, 2011, 16, 63-82.	1.0	26
56	Fractional order of rational Jacobi functions for solving the non-linear singular Thomas-Fermi equation. European Physical Journal Plus, 2017, 132, 1.	1.2	25
57	Strong Highly Anisotropic Magnetocellulose Nanocomposite Films Made by Chemical Peeling and In Situ Welding at the Interface Using an Ionic Liquid. ACS Applied Materials & Interfaces, 2014, 6, 8165-8172.	4.0	24
58	The effect of Na+ montmorillonite (NaMMT) nanoclay on thermal properties of medium density fiberboard (MDF). European Journal of Wood and Wood Products, 2012, 70, 565-571.	1.3	23
59	Simulation of Power Production from Dry Geothermal Well Using Down-hole Heat Exchanger in Sabalan Field, Northwest Iran. Natural Resources Research, 2016, 25, 227-239.	2.2	23
60	Influence of Poly(acrylic acid) on the Mechanical Properties of Composite Hydrogels. Advances in Polymer Technology, 2015, 34, .	0.8	22
61	A novel numerical technique to obtain an accurate solution to the Thomas-Fermi equation. European Physical Journal Plus, 2016, 131, 1.	1.2	22
62	Ten-year prediction of groundwater level in Karaj plain (Iran) using MODFLOW2005-NWT in MATLAB. Environmental Earth Sciences, 2019, 78, 1.	1.3	21
63	All-Cellulose Nanocomposite Made from Nanofibrillated Cellulose. Advanced Composites Letters, 2010, 19, 096369351001900.	1.3	20
64	Effects of hemicellulose pre-extraction and cellulose nanofiber on the properties of rice straw pulp. International Journal of Biological Macromolecules, 2014, 68, 198-204.	3.6	19
65	Dynamic Mussel-Inspired Chitin Nanocomposite Hydrogels for Wearable Strain Sensors. Polymers, 2020, 12, 1416.	2.0	19
66	New insulation replacement in buildingsâ€™ walls and its impact on air pollution reduction in Tehran. Intelligent Buildings International, 2019, 11, 65-74.	1.3	16
67	GIS-based spatially integrated bioenergy resources assessment in Kurdistan Province-Northwest Iran. Sustainable Energy Technologies and Assessments, 2017, 23, 11-20.	1.7	15
68	Economic and air pollution effects of city council legislations on renewable energy utilisation in Tehran. International Journal of Ambient Energy, 2018, 39, 626-631.	1.4	15
69	Decrease in CO₂ emission per capita as a result of the reduction in power grid losses in Iran. International Journal of Ambient Energy, 2020, 41, 8-18.	1.4	15
70	CO 2 loading capacity of DEA aqueous solutions: Modeling and assessment of experimental data. International Journal of Greenhouse Gas Control, 2017, 56, 289-301.	2.3	14
71	GIS modeling of CO2 emission sources and storage possibilities. Energy Procedia, 2011, 4, 2831-2838.	1.8	13
72	MWCNT-coated cellulose nanopapers: Droplet-coating, process factors, and electrical conductivity performance. Carbohydrate Polymers, 2018, 202, 504-512.	5.1	13

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73	Application of nature inspired optimization algorithms in optimum positioning of pump-as-turbines in water distribution networks. Neural Computing and Applications, 2019, 31, 7489-7499.	3.2	13
74	Design Parameters of a Double-Slope Solar Still: Modelling, Sensitivity Analysis, and Optimization. Energies, 2021, 14, 480.	1.6	12
75	A Scenario-Based Management of Water Resources and Supply Systems Using a Combined System Dynamics and Compromise Programming Approach. Water Resources Management, 2021, 35, 4233-4250.	1.9	12
76	Multi-Criteria Decision-Making System for Wind Farm Site-Selection Using Geographic Information System (GIS): Case Study of Semnan Province, Iran. Sustainability, 2022, 14, 7640.	1.6	12
77	Reliability assessment of HV substations equipped with fault current limiter considering changes of failure rate of components. IET Generation, Transmission and Distribution, 2016, 10, 1504-1509.	1.4	11
78	Modeling and optimization of currently in operation natural gas desulfurization process using adsorption separation method. Chemical Engineering and Processing: Process Intensification, 2017, 120, 220-233.	1.8	11
79	A detailed investigation and performance optimization of a photovoltaic panel integrated with a reflecting mirror. Applied Thermal Engineering, 2019, 160, 114074.	3.0	11
80	Nanopaper-based sensors. Comprehensive Analytical Chemistry, 2020, , 257-312.	0.7	11
81	Dynamic Nanohybrid-Polysaccharide Hydrogels for Soft Wearable Strain Sensing. Sensors, 2021, 21, 3574.	2.1	11
82	Energy recovery from water distribution networks using micro hydropower: A case study in Iran. Energy, 2022, 252, 124024.	4.5	11
83	Analysis of energy consumption in Finland based on the selected economics indicators. International Journal of Ambient Energy, 2018, 39, 127-131.	1.4	9
84	Analysis of robustness of the Chinese economy and energy supply/demand fluctuations. International Journal of Low-Carbon Technologies, 2019, 14, 147-159.	1.2	9
85	A Spatial-Based Integration Model for Regional Scale Solar Energy Technical Potential. Sustainability, 2020, 12, 1890.	1.6	8
86	Chitin nanofiber-based nanocomposites containing biodegradable polymers for food packaging applications. Journal Fur Verbraucherschutz Und Lebensmittelsicherheit, 2021, 16, 237-246.	0.5	8
87	Evaluating the suitability of different parameters for qualitative analysis of groundwater based on analytical hierarchy process. Desalination and Water Treatment, 2016, 57, 13175-13182.	1.0	7
88	Inflammatory and immune response genes: A genetic analysis of inhibitor development in Iranian hemophilia A patients. Pediatric Hematology and Oncology, 2019, 36, 28-39.	0.3	7
89	Effects of natural gas supply on macro-economics: comparative analysis. International Journal of Ambient Energy, 2021, 42, 483-490.	1.4	7
90	Properties of Chemi-Mechanical Pulp Filled with Nanofibrillated and Microcrystalline Cellulose. Journal of Biobased Materials and Bioenergy, 2014, 8, 489-494.	0.1	7

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91	Rheological properties of wood/bacterial cellulose and chitin nanoâ€hydrogels as a function of concentration and their nanoâ€films properties. IET Nanobiotechnology, 2022, 16, 158-169.	1.9	7
92	Preparation and characterization of nanofibrillated Cellulose/Poly (Vinyl Alcohol) composite films. Maderas: Ciencia Y Tecnologia, 2016, , 0-0.	0.7	6
93	Solving a bi-objective vehicle routing problem under uncertainty by a revised multi-choice goal programming approach. International Journal of Industrial Engineering Computations, 2017, , 283-302.	0.4	6
94	A study on the thermal and mechanical properties of composites made of nanolignocellulose and Pebax^{Â®}polymer. Journal of Thermoplastic Composite Materials, 2019, 32, 1509-1524.	2.6	6
95	Green nanocomposite made from carboxymethyl cellulose reinforced with four types of cellulose nanomaterials of wheat straw. Journal of Applied Polymer Science, 2022, 139, .	1.3	6
96	Groundwater pollution potential evaluation in Khorramabad-Lorestan Plain, western Iran. Journal of African Earth Sciences, 2018, 147, 647-656.	0.9	5
97	Environmental cost of energy consumption and biodiesel as a solution (case study: Iran). International Journal of Sustainable Energy, 2019, 38, 966-980.	1.3	5
98	Mass transfer in medium density fiberboard (MDF) modified by Na+ montmorillonite (Na+MMT) nanoclay. Maderas: Ciencia Y Tecnologia, 2011, 13, 163-172.	0.7	4
99	Shifted Boubaker Lagrangian approach for solving biological systems. International Journal of Biomathematics, 2018, 11, 1850039.	1.5	4
100	A rational approximation to the boundary layer flow of a non-Newtonian fluid. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2019, 41, 1.	0.8	4
101	Weath ering Performance of Beech Wood Coated with Acrylic Paint Containing UV Stabilizers of Dihydroxy Benzophenone and Nano Zinc Oxide. Drvna Industrija, 2020, 71, 403-409.	0.3	4
102	Effect of bagasse lignocellulose microfibers on sand stabilization: A laboratory study. Aeolian Research, 2021, 49, 100654.	1.1	4
103	Distributed wind and solar power for grid sustainability and emission reduction. Environmental Progress and Sustainable Energy, 2021, 40, e13686.	1.3	4
104	Biofuel for energy self-sufficiency in agricultural sector of Iran. Sustainable Energy Technologies and Assessments, 2021, 44, 101069.	1.7	3
105	Comparative properties of nanofibers produced using unbleached and bleached wheat straw pulps. Nordic Pulp and Paper Research Journal, 2018, 33, 439-447.	0.3	2
106	Presenting a conceptual model of data collection to manage the groundwater quality. Journal of Water and Land Development, 2017, 35, 149-160.	0.9	2
107	The Influence of Pulping Process and Energy Consumption on Properties of Nanofibrillated Lignocellulose (NFLC) Films Isolated from Wheat Straw. Drvna Industrija, 2021, 72, 327-336.	0.3	2
108	Virtual water evaluation for grains productsin Iran Case study: pea and bean. Journal of Water and Land Development, 2017, 35, 275-280.	0.9	1

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109	Chromosome numbers and karyotype features of Phlomis olivieri Benth. (Lamiaceae) from Iran. Acta Botanica Croatica, 2018, 77, 93-96.	0.3	1
110	On the reliability of CALPUFF and AUSTAL 2000 modeling systems regarding smoke and vapor plume mergence. Idojaras, 2020, 124, 299-309.	0.2	0