

# M Aghaie

## List of Publications by Year in descending order

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33  
papers

461  
citations

623734

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752698

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all docs

33  
docs citations

33  
times ranked

308  
citing authors

#	ARTICLE	IF	CITATIONS
1	A novel exergy optimization of Bushehr nuclear power plant by gravitational search algorithm (GSA). Energy, 2018, 148, 373-385.	8.8	46
2	Implementation of Grey Wolf Optimization (GWO) algorithm to multi-objective loading pattern optimization of a PWR reactor. Annals of Nuclear Energy, 2020, 148, 107703.	1.8	31
3	A novel optimization method, Gravitational Search Algorithm (GSA), for PWR core optimization. Annals of Nuclear Energy, 2016, 95, 23-34.	1.8	30
4	Investigation of PWR core optimization using harmony search algorithms. Annals of Nuclear Energy, 2013, 57, 1-15.	1.8	27
5	Economic evaluation of Qeshm island MED-desalination plant coupling with different energy sources including fossils and nuclear power plants. Desalination, 2017, 422, 101-112.	8.2	27
6	WWER core pattern enhancement using adaptive improved harmony search. Nuclear Engineering and Design, 2013, 254, 23-32.	1.7	21
7	Nuclear reactor core optimization with Parallel Integer Coded Genetic Algorithm. Annals of Nuclear Energy, 2013, 60, 308-315.	1.8	20
8	A novel approach in exergy optimization of a WWER1000 nuclear power plant using whale optimization algorithm. Annals of Nuclear Energy, 2020, 145, 107540.	1.8	20
9	A novel multi objective Loading Pattern Optimization by Gravitational Search Algorithm (GSA) for WWER1000 core. Progress in Nuclear Energy, 2016, 93, 1-11.	2.9	19
10	Thermodynamic evaluation of hybrid cooling towers based on ambient temperature. Thermal Science and Engineering Progress, 2019, 14, 100406.	2.7	19
11	Advanced progressive real coded genetic algorithm for nuclear system availability optimization through preventive maintenance scheduling. Annals of Nuclear Energy, 2013, 60, 64-72.	1.8	18
12	Evaluation of fuzzy based HS and GSA on reloading cycle length optimization of PWR nuclear power plant. Annals of Nuclear Energy, 2019, 134, 1-10.	1.8	17
13	An approach to stability analysis of spatial xenon oscillations in WWER-1000 reactors. Annals of Nuclear Energy, 2015, 79, 125-132.	1.8	16
14	Coupled neutronic thermal-hydraulic transient analysis of accidents in PWRs. Annals of Nuclear Energy, 2012, 50, 158-166.	1.8	15
15	Numerical study of fuel-clad mechanical interaction during long-term burnup of WWER1000. Annals of Nuclear Energy, 2015, 80, 267-278.	1.8	13
16	PWR core pattern optimization using grey wolf algorithm based on artificial neural network. Progress in Nuclear Energy, 2020, 129, 103505.	2.9	13
17	Energy management of nuclear desalination plant by efficient coupling a pressurized water reactor and a multi effect distillation system - thermodynamic evaluation. , 0, 151, 34-46.		13
18	Optimization of refueling cycle length by an enhanced PSO with novel mutation operator. Progress in Nuclear Energy, 2015, 78, 251-257.	2.9	12

#	ARTICLE	IF	CITATIONS
19	Exergy optimization of nuclear-solar dual proposed power plant based on GWO algorithm. Progress in Nuclear Energy, 2021, 140, 103925.	2.9	12
20	Multi objective loading pattern optimization of PWRs with Fuzzy logic controller based Gravitational Search Algorithm. Nuclear Engineering and Design, 2017, 322, 1-13.	1.7	11
21	Multi-objective optimization of hybrid nuclear power plant coupled with multiple effect distillation using gravitational search algorithm based on artificial neural network. Thermal Science and Engineering Progress, 2020, 19, 100645.	2.7	9
22	Introducing optimum parameters of separation cascades for $^{123}\text{Te}$ using GWO based on ANN. Annals of Nuclear Energy, 2021, 163, 108545.	1.8	8
23	Evaluation of ATFs in core degradation of a PWR in unmitigated SBLOCA. Annals of Nuclear Energy, 2021, 152, 107961.	1.8	6
24	Implementation of Gray Wolf Optimization algorithm to recycled gas centrifuge cascades. Progress in Nuclear Energy, 2021, 137, 103769.	2.9	6
25	Transient analysis of break below the grid in Tehran research reactor using the newly enhanced COBRA-EN code. Annals of Nuclear Energy, 2012, 49, 1-11.	1.8	5
26	Analysis of accumulators configuration in LB-LOCA for Bushehr NPP. Annals of Nuclear Energy, 2016, 92, 96-106.	1.8	5
27	Analysis of control rod drop accident in PWRs with multipoint kinetics method. Annals of Nuclear Energy, 2016, 88, 194-203.	1.8	5
28	Optimal design of separation cascades using the whale optimization algorithm. Annals of Nuclear Energy, 2022, 172, 109020.	1.8	5
29	Enhancement of COBRA-EN capability for VVER reactors calculations. Annals of Nuclear Energy, 2012, 46, 234-243.	1.8	4
30	Investigation of flapper valve malfunction in Tehran Research Reactor with porous media model. Progress in Nuclear Energy, 2018, 105, 221-235.	2.9	3
31	Numerical study of hyperstoichiometric fuel creep ( $\text{UO}_2$ ) in fuel clad interaction of WWER1000. Annals of Nuclear Energy, 2019, 133, 950-959.	1.8	2
32	Simulation of separative gaseous molecular flow through porous membrane with DSMC method. Progress in Nuclear Energy, 2020, 118, 103150.	2.9	2
33	Investigation of capillary size on the separation factor of gaseous separation membrane with DSMC method. Progress in Nuclear Energy, 2021, 137, 103768.	2.9	1