Y Cengiz Toklu

List of Publications by Year
in descending order

39 papers	526 citations	758635 12 h-index	676716 22 g-index
42 all docs	42 docs citations	42 times ranked	291 citing authors

#	Article	IF	Citations
1	Lunar soils, simulants and lunar construction materials: An overview. Advances in Space Research, 2022, 70, 762-779.	1.2	16
2	Total Potential Optimization Using Metaheuristic Algorithms for Solving Nonlinear Plane Strain Systems. Applied Sciences (Switzerland), 2021, 11, 3220.	1.3	11
3	Total Potential Optimization Using Hybrid Metaheuristics: A Tunnel Problem Solved via Plane Stress Members. Studies in Systems, Decision and Control, 2021, , 221-236.	0.8	5
4	Total Potential Optimization Using Metaheuristics: Analysis of Cantilever Beam via Plane-Stress Members. Advances in Intelligent Systems and Computing, 2021, , 127-138.	0.5	8
5	Harmony Search Optimization of Nozzle Movement for Additive Manufacturing of Concrete Structures and Concrete Elements. Applied Sciences (Switzerland), 2020, 10, 4413.	1.3	10
6	Analysis of Plane-Stress Systems via Total Potential Optimization Method Considering Nonlinear Behavior. Journal of Structural Engineering, 2020, 146, .	1.7	12
7	A Novel Hybrid Harmony Search Approach for the Analysis of Plane Stress Systems via Total Potential Optimization. Applied Sciences (Switzerland), 2020, 10, 2301.	1.3	28
8	Lunar Soil Simulants- An Assessment. , 2019, , .		5
9	Advanced energy‐based analyses of trusses employing hybrid metaheuristics. Structural Design of Tall and Special Buildings, 2019, 28, e1609.	0.9	18
10	Tranfer function amplitude minimization for structures with tuned mass dampers considering soil-structure interaction. Soil Dynamics and Earthquake Engineering, 2019, 116, 552-562.	1.9	68
11	Application of Big Bang - Big Crunch Optimization to Resource Constrained Scheduling Problems. KSCE Journal of Civil Engineering, 2018, 22, 4760-4770.	0.9	1
12	Preface of the "Metaheuristic and Numerical Analysis in Engineering". AIP Conference Proceedings, 2018, , .	0.3	0
13	Analysis of under-constrained and unstable structures by the method TPO/MA. AIP Conference Proceedings, 2018, , .	0.3	1
14	Minimization of vertical deflection of an optimum I-beam by Jaya algorithm. AIP Conference Proceedings, 2018, , .	0.3	3
15	Space research and extraterrestrial construction industry. , 2017, , .		2
16	Production of lunar soil simulant in Turkey. , 2017, , .		3
17	Total potential energy minimization method in structural analysis considering material nonlinearity. Challenge Journal of Structural Mechanics, 2017, 3, 129.	0.2	4
18	Otomatik Yapı Üretim Teknolojisinde Kullanılabilecek Malzemelerin Belirlenmesi. Journal of Natural and Applied Sciences, 2017, 21, 51.	0.1	2

#	Article	IF	Citations
19	Analysis of Tensegric Structures by Total Potential Optimization Using Metaheuristic Algorithms. Journal of Aerospace Engineering, 2016, 29, .	0.8	17
20	Geometrically Nonlinear Analysis of Trusses Using Particle Swarm Optimization. Studies in Computational Intelligence, 2015, , 283-300.	0.7	5
21	Assessment of lunar surface materials. , 2015, , .		1
22	Social, historical and international aspects of space research. , 2015, , .		0
23	Computation of Nonunique Solutions for Trusses Undergoing Large Deflections. International Journal of Computational Methods, 2015, 12, 1550022.	0.8	8
24	The influence of zeolite and powdered Bayburt stones on the water transport kinetics and mechanical properties of hydrated lime mortars. Construction and Building Materials, 2015, 98, 345-352.	3.2	16
25	Space applications of tensegric structures. , 2013, , .		5
26	Metaheuristics and engineering. AIP Conference Proceedings, 2013, , .	0.3	2
27	Preface of the "2nd symposium on metaheuristic and numerical analysis / engineering applications". , 2013, , .		0
28	Analysis of trusses by total potential optimization method coupled with harmony search. Structural Engineering and Mechanics, 2013, 45, 183-199.	1.0	26
29	Aggregate Blending via Robust Linear Programming. Journal of Construction Engineering and Management - ASCE, 2012, 138, 188-196.	2.0	6
30	Optimization in Structural Analysis and Design. , 2009, , .		4
31	Aggregate Blending Using Genetic Algorithms. Computer-Aided Civil and Infrastructure Engineering, 2005, 20, 450-460.	6.3	17
32	Closure to â€œConstructability Analysis in the Design Firmâ€•by David Arditi, Ahmed Elhassan, and Y. Cengiz Toklu. Journal of Construction Engineering and Management - ASCE, 2004, 130, 302-304.	2.0	3
33	Nonlinear analysis of trusses through energy minimization. Computers and Structures, 2004, 82, 1581-1589.	2.4	54
34	Considerations on the Design of Space Structuresâ€"Active Design and Inclusion of Nonlinear Effects. , 2004, , 704.		7
35	Constructability Analysis in the Design Firm. Journal of Construction Engineering and Management - ASCE, 2002, 128, 117-126.	2.0	81
36	Application of genetic algorithms to construction scheduling with or without resource constraints. Canadian Journal of Civil Engineering, 2002, 29, 421-429.	0.7	52

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37	Civil Engineering in the Design and Construction of a Lunar Base. , 2000, , 822.		16
38	On the Stability and Large Deflection Analysis of Elastic Bars. , 1982, , 185-200.		0
39	Optimum lunar and martian structures and their construction. , 0, , .		5