

# Mohsen Hesami

## List of Publications by Year in descending order

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31  
papers

1,041  
citations

331642

21  
h-index

434170

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g-index

34  
all docs

34  
docs citations

34  
times ranked

411  
citing authors

#	ARTICLE	IF	CITATIONS
1	Exogenous Melatonin Protects Lime Plants from Drought Stress-Induced Damage by Maintaining Cell Membrane Structure, Detoxifying ROS and Regulating Antioxidant Systems. <i>Horticulturae</i> , 2022, 8, 257.	2.8	14
2	In vitro plant tissue culture as the fifth generation of bioenergy. <i>Scientific Reports</i> , 2022, 12, 5038.	3.3	14
3	A Noninvasive Gas Exchange Method to Test and Model Photosynthetic Proficiency and Growth Rates of In Vitro Plant Cultures: Preliminary Implication for Cannabis sativa L.. <i>Biology</i> , 2022, 11, 729.	2.8	11
4	Machine learning: its challenges and opportunities in plant system biology. <i>Applied Microbiology and Biotechnology</i> , 2022, 106, 3507-3530.	3.6	26
5	The Past, Present and Future of Cannabis sativa Tissue Culture. <i>Plants</i> , 2021, 10, 185.	3.5	52
6	A hybrid model based on general regression neural network and fruit fly optimization algorithm for forecasting and optimizing paclitaxel biosynthesis in <i>Corylus avellana</i> cell culture. <i>Plant Methods</i> , 2021, 17, 13.	4.3	53
7	Synergizing Off-Target Predictions for In Silico Insights of CENH3 Knockout in Cannabis through CRISPR/Cas. <i>Molecules</i> , 2021, 26, 2053.	3.8	27
8	Advances and Perspectives in Tissue Culture and Genetic Engineering of Cannabis. <i>International Journal of Molecular Sciences</i> , 2021, 22, 5671.	4.1	50
9	Modeling and optimizing callus growth and development in Cannabis sativa using random forest and support vector machine in combination with a genetic algorithm. <i>Applied Microbiology and Biotechnology</i> , 2021, 105, 5201-5212.	3.6	37
10	Modeling and optimizing in vitro seed germination of industrial hemp ( <i>Cannabis sativa</i> L.). <i>Industrial Crops and Products</i> , 2021, 170, 113753.	5.2	35
11	Comparative Analysis of Machine Learning and Evolutionary Optimization Algorithms for Precision Micropropagation of Cannabis sativa: Prediction and Validation of in vitro Shoot Growth and Development Based on the Optimization of Light and Carbohydrate Sources. <i>Frontiers in Plant Science</i> , 2021, 12, 757869.	3.6	28
12	Machine Learning-Mediated Development and Optimization of Disinfection Protocol and Scarification Method for Improved In Vitro Germination of Cannabis Seeds. <i>Plants</i> , 2021, 10, 2397.	3.5	30
13	Effects of sodium nitroprusside on callus browning of <i>Ficus religiosa</i> : an important medicinal plant. <i>Journal of Forestry Research</i> , 2020, 31, 789-796.	3.6	30
14	Application of artificial intelligence models and optimization algorithms in plant cell and tissue culture. <i>Applied Microbiology and Biotechnology</i> , 2020, 104, 9449-9485.	3.6	108
15	Introducing a hybrid artificial intelligence method for high-throughput modeling and optimizing plant tissue culture processes: the establishment of a new embryogenesis medium for chrysanthemum, as a case study. <i>Applied Microbiology and Biotechnology</i> , 2020, 104, 10249-10263.	3.6	26
16	Recent advances in cannabis biotechnology. <i>Industrial Crops and Products</i> , 2020, 158, 113026.	5.2	59
17	Application of Artificial Neural Network for Modeling and Studying In Vitro Genotype-Independent Shoot Regeneration in Wheat. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 5370.	2.5	39
18	Development of support vector machine-based model and comparative analysis with artificial neural network for modeling the plant tissue culture procedures: effect of plant growth regulators on somatic embryogenesis of chrysanthemum, as a case study. <i>Plant Methods</i> , 2020, 16, 112.	4.3	58

#	ARTICLE	IF	CITATIONS
19	Forecasting and optimizing Agrobacterium-mediated genetic transformation via ensemble model- fruit fly optimization algorithm: A data mining approach using chrysanthemum databases. PLoS ONE, 2020, 15, e0239901.	2.5	28
20	Application of Adaptive Neuro-Fuzzy Inference System-Non-dominated Sorting Genetic Algorithm-II (ANFIS-NSGAI) for Modeling and Optimizing Somatic Embryogenesis of Chrysanthemum. Frontiers in Plant Science, 2019, 10, 869.	3.6	48
21	Modeling and Optimizing in vitro Sterilization of Chrysanthemum via Multilayer Perceptron-Non-dominated Sorting Genetic Algorithm-II (MLP-NSGAI). Frontiers in Plant Science, 2019, 10, 282.	3.6	53
22	Modeling and Optimizing Medium Composition for Shoot Regeneration of Chrysanthemum via Radial Basis Function-Non-dominated Sorting Genetic Algorithm-II (RBF-NSGAI). Scientific Reports, 2019, 9, 18237.	3.3	42
23	An efficient in vitro shoot regeneration through direct organogenesis from seedling-derived petiole and leaf segments and acclimatization of Ficus religiosa. Journal of Forestry Research, 2019, 30, 807-815.	3.6	22
24	In Vitro Adventitious Shoot Regeneration through Direct and Indirect Organogenesis from Seedling-derived Hypocotyl Segments of Ficus religiosa L.: An Important Medicinal Plant. Hortscience: A Publication of the American Society for Horticultural Science, 2018, 53, 55-61.	1.0	26
25	Effect of plant growth regulators on indirect shoot organogenesis of Ficus religiosa through seedling derived petiole segments. Journal of Genetic Engineering and Biotechnology, 2018, 16, 175-180.	3.3	31
26	Indirect Organogenesis through Seedling-Derived Leaf Segments of Ficus Religiosa - a Multipurpose Woody Medicinal Plant. Journal of Crop Science and Biotechnology, 2018, 21, 129-136.	1.5	22
27	Morphological Characterization of Ficus religiosa Genotypes in Iran by Multivariate Analysis. Hortscience: A Publication of the American Society for Horticultural Science, 2018, 53, 932-936.	1.0	4
28	Optimizing sterilization conditions and growth regulator effects on in vitro shoot regeneration through direct organogenesis in Chenopodium quinoa. Biotechnologia, 2018, 99, 49-57.	0.9	18
29	In vitro culture as a powerful method for conserving Iranian ornamental geophytes. Biotechnologia, 2018, 99, 73-81.	0.9	9
30	Establishment of a Protocol for in vitro Seed Germination and Callus Formation of Ficus religiosa L., an Important Medicinal Plant. Jundishapur Journal of Natural Pharmaceutical Products, 2018, In Press, .	0.6	12
31	In vitro Shoot Proliferation through Cotyledonary Node and Shoot Tip Explants of Ficus religiosa L.. Plant Tissue Culture and Biotechnology, 2017, 27, 85-88.	0.2	21