Irma ChacÃ³n

List of Publications by Year
in descending order

35 papers	**567** citations	623734 **14** h-index	642732 **23** g-index
35 all docs	**35** docs citations	**35** times ranked	**533** citing authors

#	Article	IF	Citations
1	A computational wavelet method for variable-order fractional model of dual phase lag bioheat equation. Journal of Computational Physics, 2019, 395, 1-18.	3.8	44
2	A comprehensive numerical study of space-time fractional bioheat equation using fractional-order Legendre functions. European Physical Journal Plus, 2018, 133, 1.	2.6	41
3	A new method to compare the spectral densities of two independent periodically correlated time series. Mathematics and Computers in Simulation, 2019, 160, 103-110.	4.4	40
4	Chebyshev polynomials for generalized Couette flow of fractional Jeffrey nanofluid subjected to several thermochemical effects. Engineering With Computers, 2021, 37, 579-595.	6.1	39
5	Ohmic heating of blended citrus juice: Numerical modeling of process and bacterial inactivation kinetics. Innovative Food Science and Emerging Technologies, 2019, 52, 313-324.	5.6	35
6	Lean flammability limits for stable performance with a porous burner. Applied Energy, 2009, 86, 2635-2643.	10.1	34
7	2,4-D adsorption from agricultural subsurface drainage by canola stalk-derived activated carbon: insight into the adsorption kinetics models under batch and column conditions. Environmental Science and Pollution Research, 2020, 27, 16983-16997.	5.3	30
8	Numerical simulation of Cd(II) removal by ostrich bone ash supported nanoscale zero-valent iron in a fixed-bed column system: Utilization of unsteady advection-dispersion-adsorption equation. Journal of Water Process Engineering, 2018, 25, 1-14.	5.6	26
9	Application of artificial neural network model for the identification the effect of municipal waste compost and biochar on phytoremediation of contaminated soils. Journal of Geochemical Exploration, 2020, 208, 106399.	3.2	25
10	Ultrasound-assisted bleaching: Mathematical and 3D computational fluid dynamics simulation of ultrasound parameters on microbubble formation and cavitation structures. Innovative Food Science and Emerging Technologies, 2019, 55, 66-79.	5.6	24
11	Numerical study of unsteady natural convection of variable-order fractional Jeffrey nanofluid over an oscillating plate in a porous medium involved with magnetic, chemical and heat absorption effects using Chebyshev cardinal functions. European Physical Journal Plus, 2019, 134, 1.	2.6	22
12	Modeling inactivation of Listeria monocytogenes, Shigella sonnei, Byssochlamys fulva and Saccharomyces cerevisiae and ascorbic acid and Î²-carotene degradation kinetics in tangerine juice by pulsed-thermosonication. LWT - Food Science and Technology, 2019, 111, 612-621.	5.2	22
13	Kinetics and thermodynamic modelling of the aflatoxins decontamination: a review. International Journal of Food Science and Technology, 2020, 55, 3525-3532.	2.7	21
14	Statistical modeling of the inactivation of spoilage microorganisms during ohmic heating of sour orange juice. LWT - Food Science and Technology, 2019, 111, 821-828.	5.2	17
15	Experimental, heat transfer and microbial inactivation modeling of microwave pasteurization of carrot slices as an efficient and clean process. Food and Bioproducts Processing, 2020, 121, 113-122.	3.6	16
16	A Comprehensive Study and Optimization of Magnetic Nanoparticle Drug Delivery to Cancerous Tissues via External Magnetic Field. Journal of Testing and Evaluation, 2019, 47, 681-703.	0.7	15
17	Experimental and computational fluid dynamics modeling of <i>Satureja khuzestanica</i> essential oil extraction during ohmicâ€hydrodistillation. Journal of Food Process Engineering, 2019, 42, e13083.	2.9	12
18	An efficient meshless method based on the moving Kriging interpolation for twoâ€dimensional variableâ€order time fractional mobile/immobile advectionâ€diffusion model. Mathematical Methods in the Applied Sciences, 2021, 44, 3182-3194.	2.3	12

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19	Optimal control of hyperthermia thermal damage based on tumor configuration. Results in Physics, 2021, 23, 103992.	4.1	12
20	Numerical simulation of HIFU with dual transducers: The implementation of dual-phase lag bioheat and non-linear Westervelt equations. International Communications in Heat and Mass Transfer, 2021, 120, 105002.	5.6	11
21	Determination of Magnetic Nanoparticles Injection Characteristics for Optimal Hyperthermia Treatment of an Arbitrary Cancerous Cells Distribution. Journal of Testing and Evaluation, 2020, 48, 905-921.	0.7	9
22	Kinetic models for production of propionic acid by Propionibacter freudenrechii subsp. shermanii and Propionibacterium freudenreichii subsp. freudenreichii in date syrup during sonication treatments. Biocatalysis and Agricultural Biotechnology, 2019, 17, 613-619.	3.1	8
23	Horn ultrasonic-assisted bleaching of vegetable oils with various viscosities as a green process: Computational fluid dynamics simulation of process. Industrial Crops and Products, 2020, 156, 112845.	5.2	8
24	Kinetics and mathematics modeling of ochratoxin a detoxification in maize dough by *Lacticaseibacillus* *casei* subs. *casei* subjected to continuous and pulsed ultrasound. Journal of Food Processing and Preservation, 2021, 45, e15336.	2.0	8
25	Performing Effective Drug Delivery and Hyperthermia Based on Biological and Treatment Parameters: A Comprehensive Eulerian-Lagrangian Approach. Journal of Computational and Theoretical Nanoscience, 2016, 13, 6628-6641.	0.4	7
26	Toward a realistic reconstruction and determination of blood flow pattern in complex vascular network: 3D, non-Newtonian, multi-branch simulation based on CFD and GMDH algorithm. International Communications in Heat and Mass Transfer, 2021, 122, 105185.	5.6	6
27	A wavelet approach for the variable-order fractional model of ultra-short pulsed laser therapy. Engineering With Computers, 0, , 1.	6.1	5
28	Optimization of focused multi-site injection therapy to provide the desired temperature pattern for arbitrary tumor configuration based on MNP hyperthermia: Implementation of dual phase lag bioheat equation. Ain Shams Engineering Journal, 2021, 12, 901-915.	6.1	4
29	A reliable algorithm to determine the pollution transport within underground reservoirs: implementation of an efficient collocation meshless method based on the moving Kriging interpolation. Engineering With Computers, 0, , 1.	6.1	4
30	Parametric study and performance analysis of a swinging sail wind machine. Energy Conversion and Management, 2020, 205, 112452.	9.2	3
31	Numerical Simulation of Hydrogen Fueled Porous Burner. Journal of Thermal Science and Technology, 2013, 8, 555-570.	1.1	2
32	Continuous and pulsed ultrasound treatment of barberry juice: Microbial inactivation and kinetics models. Journal of Food Processing and Preservation, 2021, 45, e16083.	2.0	2
33	A numerical study on nonlinear dynamics of oscillatory time-depended viscoelastic flow between infinite parallel plates: utilization of symmetric and antisymmetric Chandrasekhar functions. Heliyon, 2019, 5, e02647.	3.2	1
34	Modeling and analysis of a fully passive swinging sail wind turbine. Wind Energy, 2021, 24, 653-671.	4.2	1
35	Sonication treatment of pomegranate juice containing Saccharomyces cerevisiae and Byssochlamys fulva: Thermodynamic and predictive modeling after treatment and during shelf life. Food Science and Technology International, 2021, , 108201322110094.	2.2	1