# Irma ChacÃ³n

## List of Publications by Year
in descending order

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

| # | Article | IF | Citations |
|---|---------|----|-----------|
| 1 | 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 |
| 2 | 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 |
| 3 | 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 |
| 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 | Modeling and analysis of a fully passive swinging sail wind turbine. Wind Energy, 2021, 24, 653-671. | 4.2 | 1 |
| 6 | Kinetics and mathematics modeling of ochratoxin a detoxification in maize dough by <i>Lacticaseibacillus</i> <i>casei</i> subs. <i>casei</i> subjected to continuous and pulsed ultrasound. Journal of Food Processing and Preservation, 2021, 45, e15336. | 2.0 | 8 |
| 7 | 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 |
| 8 | Optimal control of hyperthermia thermal damage based on tumor configuration. Results in Physics, 2021, 23, 103992. | 4.1 | 12 |
| 9 | 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 |
| 10 | 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 |
| 11 | 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 |
| 12 | Parametric study and performance analysis of a swinging sail wind machine. Energy Conversion and Management, 2020, 205, 112452. | 9.2 | 3 |
| 13 | 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 |
| 14 | Kinetics and thermodynamic modelling of the aflatoxins decontamination: a review. International Journal of Food Science and Technology, 2020, 55, 3525-3532. | 2.7 | 21 |
| 15 | 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 |
| 16 | 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 |
| 17 | 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 |
| 18 | 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 |

| # | Article | IF | Citations |
|---|---------|----|-----------|
| 19 | Modeling inactivation of Listeria monocytogenes, Shigella sonnei, Byssochlamys fulva and Saccharomyces cerevisiae and ascorbic acid and β²-carotene degradation kinetics in tangerine juice by pulsed-thermosonication. LWT - Food Science and Technology, 2019, 111, 612-621. | 5.2 | 22 |
| 20 | 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 |
| 21 | 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 |
| 22 | 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 |
| 23 | 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 |
| 24 | 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 |
| 25 | 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 |
| 26 | 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 |
| 27 | 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 |
| 28 | 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 |
| 29 | 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 |
| 30 | 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 |
| 31 | 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 |
| 32 | Numerical Simulation of Hydrogen Fueled Porous Burner. Journal of Thermal Science and Technology, 2013, 8, 555-570. | 1.1 | 2 |
| 33 | Lean flammability limits for stable performance with a porous burner. Applied Energy, 2009, 86, 2635-2643. | 10.1 | 34 |
| 34 | A wavelet approach for the variable-order fractional model of ultra-short pulsed laser therapy. Engineering With Computers, 0, , 1. | 6.1 | 5 |
| 35 | 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 |