Marcelo Kaminski Lenzi

List of Publications by Year
in descending order

78 papers	1,011 citations	489802 18 h-index	591227 27 g-index
79 all docs	79 docs citations	79 times ranked	1151 citing authors

#	Article	IF	Citations
1	Fractional Diffusion with Geometric Constraints: Application to Signal Decay in Magnetic Resonance Imaging (MRI). Mathematics, 2022, 10, 389.	1.1	5
2	Kinetic Modeling of $scCO_2$-Assisted Levulinic Acid Esterification with Ethanol Using Amberlyst-15 as a Catalyst in a Batch Reactor. Energy & Fuels, 2021, 35, 14770-14779.	2.5	2
3	Diffusion in Heterogenous Media and Sorption–Desorption Processes. Fractal and Fractional, 2021, 5, 183.	1.6	3
4	Optimization of Esterification Reaction Conditions Through the Analysis of the Main Significant Variables. , 2021, 1, .		1
5	Fractional Order Pole Placement for a buck converter based on commensurable transfer function. ISA Transactions, 2020, 107, 370-384.	3.1	5
6	A Survey of Fractional Order Calculus Applications of Multiple-Input, Multiple-Output (MIMO) Process Control. Fractal and Fractional, 2020, 4, 22.	1.6	19
7	Water vapor permeation and morphology of polysulfone membranes prepared by phase inversion. Polimeros, 2020, 30, .	0.2	5
8	Experimental validation of hindered settling models and flux theory applied in continuous flow process for harvesting *Acutodesmus obliquus*. Canadian Journal of Chemical Engineering, 2019, 97, 1903-1912.	0.9	4
9	Adsorption and desorption of acetylsalicylic acid onto activated carbon of babassu coconut mesocarp. Journal of Environmental Chemical Engineering, 2019, 7, 102862.	3.3	44
10	A fractional model to relative viscosity prediction of water-in-crude oil emulsions. Journal of Petroleum Science and Engineering, 2019, 172, 493-501.	2.1	9
11	Nonlinear diffusion equation with reaction terms: Analytical and numerical results. Applied Mathematics and Computation, 2018, 330, 254-265.	1.4	4
12	Polyurethane Foams Based on Biopolyols from Castor Oil and Glycerol. Journal of Polymers and the Environment, 2018, 26, 2467-2475.	2.4	20
13	USO DA IMAGEM DIGITAL PARA QUANTIFICAÇÃO DE MISTURAS DE AZEITE DE OLIVA E ÓLEO DE CANOLA. Boletim Centro De Pesquisa De Processamento De Alimentos, 2018, 35, .	0.2	0
14	A Fractional Order Power System Stabilizer Applied on a Small-Scale Generation System. Energies, 2018, 11, 2052.	1.6	7
15	Monitoring Liquid-Liquid Mixtures Using Fractional Calculus and Image Analysis. Fractal and Fractional, 2018, 2, 11.	1.6	2
16	Solutions for a mass transfer process governed by fractional diffusion equations with reaction terms. Communications in Nonlinear Science and Numerical Simulation, 2017, 48, 307-317.	1.7	9
17	Fractional Diffusion Equation with Spherical Symmetry and Reactive Boundary Conditions. Fundamenta Informaticae, 2017, 151, 341-354.	0.3	1
18	Nonlinear Fokker–Planck equations, H – theorem, and entropies. Chinese Journal of Physics, 2017, 55, 1294-1299.	2.0	7

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19	Intermittent Motion, Nonlinear Diffusion Equation and Tsallis Formalism. Entropy, 2017, 19, 42.	1.1	11
20	Anomalous Diffusion with an Irreversible Linear Reaction and Sorption-Desorption Process. Advances in Mathematical Physics, 2017, 2017, 1-7.	0.4	6
21	Simulation of Multivariable Fractional Control Applied to Binary Distillation. International Review of Chemical Engineering (IRECHE), 2017, 9, 60.	0.0	2
22	Mathematical modeling of fish burger baking using fractional calculus. Thermal Science, 2017, 21, 41-50.	0.5	6
23	Fractional diffusion equations coupled by reaction terms. Physica A: Statistical Mechanics and Its Applications, 2016, 458, 9-16.	1.2	14
24	Liquid-liquid Equilibrium in Systems Containing Olive Oil, Free Fatty Acids, Ethanol and Water. Open Chemical Engineering Journal, 2016, 10, 10-17.	0.4	5
25	Measurement of freezing point of tilapia fish burger using differential scanning calorimetry (DSC) and cooling curve method. Journal of Food Engineering, 2015, 161, 82-86.	2.7	26
26	Effect of grilling and baking on physicochemical and textural properties of tilapia (Oreochromis) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 46	1.4	29
27	PHYSICAL CHANGES OF TILAPIA FISH BURGER DURING FROZEN STORAGE. Boletim Centro De Pesquisa De Processamento De Alimentos, 2015, 33, .	0.2	0
28	Diffusion equations and different spatial fractional derivatives. Acta Scientiarum - Technology, 2014, 36, 657-662.	0.4	3
29	<b>Freezing and thawing of processed meat in an industrial freezing tunnel<b>. Acta Scientiarum - Technology, 2014, 36, 361.	0.4	6
30	Fractional diffusion equation, boundary conditions and surface effects. Journal of Statistical Mechanics: Theory and Experiment, 2014, 2014, P08019.	0.9	4
31	Reaction on a solid surface supplied by an anomalous mass transfer source. Physica A: Statistical Mechanics and Its Applications, 2014, 410, 399-406.	1.2	13
32	An extension of the linear Luikov system equations of heat and mass transfer. International Journal of Heat and Mass Transfer, 2013, 63, 233-238.	2.5	13
33	Parametric Analysis of a Heavy Metal Sorption Isotherm Based on Fractional Calculus. Mathematical Problems in Engineering, 2013, 2013, 1-10.	0.6	3
34	Characterization of tropical fruits: Rheology, stability and phenolic compounds. Acta Alimentaria, 2013, 42, 586-598.	0.3	19
35	Image analysis for composition monitoring. Commercial blends of olive and soybean oil. Acta Scientiarum - Technology, 2013, 35, .	0.4	6
36	Use of image analysis for monitoring the dilution of Physalis peruviana pulp. Brazilian Archives of Biology and Technology, 2013, 56, 467-474.	0.5	7

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37	Vacuum Drying Kinetics of Yacon (*Smallanthus sonchifolius*) and the Effect of Process Conditions on Fractal Dimension and Rehydration Capacity. Drying Technology, 2012, 30, 13-19.	1.7	27
38	EFFECT OF VACUUM DRYING CONDITIONS ON THE QUALITY OF YACON (SMALLANTHUS SONCHIFOLIUS) SLICES: PROCESS OPTIMIZATION TOWARD COLOR QUALITY. Journal of Food Processing and Preservation, 2012, 36, 67-73.	0.9	19
39	Solutions for a fractional diffusion equation with noninteger dimensions. Nonlinear Analysis: Real World Applications, 2012, 13, 1955-1960.	0.9	13
40	Phase behaviour measurements for the system (carbon dioxide+biodiesel+ethanol) at high pressures. Journal of Chemical Thermodynamics, 2012, 47, 412-419.	1.0	31
41	Non-Markovian diffusion equation and diffusion in a porous catalyst. Chemical Engineering Journal, 2011, 172, 1083-1087.	6.6	22
42	Some results for an $\mathcal{N}$-dimensional nonlinear diffusion equation with radial symmetry. Journal of Engineering Mathematics, 2010, 67, 233-240.	0.6	1
43	Solutions for a non-Markovian diffusion equation. Physics Letters, Section A: General, Atomic and Solid State Physics, 2010, 374, 4193-4198.	0.9	15
44	Fractional control of an industrial furnace. Acta Scientiarum - Technology, 2010, 32, .	0.4	5
45	Simulation Studies of Steam Reforming of Methane using Ni-Al2O3 Catalysts. International Journal of Chemical Reactor Engineering, 2010, 8, .	0.6	4
46	Soluções para a equação de difusão com um termo não-local. Acta Scientiarum - Technology, 2009, 31, .	0.4	4
47	Green function for a non-Markovian Fokker-Planck equation: comb-model and anomalous diffusion. Brazilian Journal of Physics, 2009, 39, 438-487.	0.7	11
48	Some results for a fractional diffusion equation with radial symmetry in a confined region. Physica A: Statistical Mechanics and Its Applications, 2009, 388, 806-810.	1.2	15
49	Development of Multivariate Statistical-Based Tools for Monitoring of Sour Water Unit. Computer Aided Chemical Engineering, 2009, 27, 1479-1484.	0.3	2
50	Solutions for a fractional nonlinear diffusion equation with external force and absorbent term. Journal of Statistical Mechanics: Theory and Experiment, 2009, 2009, P02048.	0.9	6
51	Results for a fractional diffusion equation with a nonlocal term in spherical symmetry. Physics Letters, Section A: General, Atomic and Solid State Physics, 2008, 372, 6121-6124.	0.9	8
52	Exact solutions for a diffusion equation with a nonlinear external force. Physics Letters, Section A: General, Atomic and Solid State Physics, 2008, 372, 2359-2363.	0.9	7
53	Exact solutions for a forced Burgers equation with a linear external force. Physica A: Statistical Mechanics and Its Applications, 2008, 387, 2690-2696.	1.2	9
54	Solutions for a fractional diffusion equation with spherical symmetry using Green function approach. Chemical Physics, 2008, 344, 90-94.	0.9	13

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55	"Living" Radical Polymerization in Tubular Reactors, 2 – Process Optimization for Tailor-Made Molecular Weight Distributions. Macromolecular Reaction Engineering, 2008, 2, 414-421.	0.9	15
56	Characterization and hydrogenation of methyl oleate over Ru/TiO2, Ru–Sn/TiO2 catalysts. Journal of Non-Crystalline Solids, 2008, 354, 4865-4870.	1.5	33
57	Cobalt, nickel and ruthenium-silica based materials synthesized by the sol–gel method. Journal of Non-Crystalline Solids, 2008, 354, 4811-4815.	1.5	9
58	Equação de difusão não linear, soluções e difusão anômala. Acta Scientiarum - Technology, 2008, 29, .	0.4	0
59	Spreadsheet for cyclone and hydrocyclone design considering nonspherical particle geometry. Computer Applications in Engineering Education, 2007, 15, 134-142.	2.2	2
60	Fractional nonlinear diffusion equation, solutions and anomalous diffusion. Physica A: Statistical Mechanics and Its Applications, 2007, 375, 65-71.	1.2	26
61	Fractional diffusion equation with an absorbent term and a linear external force: Exact solution. Physics Letters, Section A: General, Atomic and Solid State Physics, 2007, 366, 346-350.	0.9	21
62	"Living" Free Radical Polymerization in Tubular Reactors. I. Modeling of the Complete Molecular Weight Distribution Using Probability Generating Functions. Macromolecular Reaction Engineering, 2007, 1, 622-634.	0.9	26
63	Preparation and characterization of nickel based catalysts on silica, alumina and titania obtained by sol–gel method. Journal of Non-Crystalline Solids, 2006, 352, 3697-3704.	1.5	62
64	Equação da difusão fracionária não-linear: solução exata. Acta Scientiarum - Technology, 2006, 28, 47.	0.4	1
65	Detecting Core-Shell Structure Formation Using near Infrared Spectroscopy. Journal of Near Infrared Spectroscopy, 2006, 14, 179-187.	0.8	12
66	Fractional diffusion equation and Green function approach: Exact solutions. Physica A: Statistical Mechanics and Its Applications, 2006, 360, 215-226.	1.2	20
67	Nonlinear diffusion equation and nonlinear external force: Exact solution. Journal of Mathematical Physics, 2006, 47, 103302.	0.5	12
68	Monitoring and Control of Polymerization Reactors Using NIR Spectroscopy. Polymer-Plastics Technology and Engineering, 2005, 44, 1-61.	1.9	83
69	Modeling of semibatch styrene suspension polymerization processes. Journal of Applied Polymer Science, 2005, 96, 1950-1967.	1.3	8
70	Difusão anômala e equações fracionárias de difusão. Acta Scientiarum - Technology, 2005, 27, 123.	0.4	0
71	Producing Bimodal Molecular Weight Distribution Polymer Resins Using Living and Conventional Free-Radical Polymerization. Industrial & Engineering Chemistry Research, 2005, 44, 2568-2578.	1.8	25
72	Low-Cost Thermocouple Signal-Conditioning Module. Journal of Chemical Education, 2005, 82, 122.	1.1	3

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73	Modelagem da polimerização simultânea de estireno em suspensão e emulsão. Polimeros, 2004, 14, 112-121.	0.2	6
74	Semibatch styrene suspension polymerization processes. Journal of Applied Polymer Science, 2003, 89, 3021-3038.	1.3	46
75	Monitoring and control of styrene solution polymerization using NIR spectroscopy. Journal of Applied Polymer Science, 2003, 90, 1273-1289.	1.3	48
76	Specific heat in the nonextensive statistics: effective temperature and Lagrange parameter β. Physics Letters, Section A: General, Atomic and Solid State Physics, 2002, 292, 315-319.	0.9	9
77	A simple real-time process control experiment using serial communication. Computer Applications in Engineering Education, 2001, 9, 101-104.	2.2	5
78	Kinetics and Equilibrium of Mercury Sorption by Three Different Types of Live Algae. Brazilian Archives of Biology and Technology, 0, 63, .	0.5	1