

# Marcelo Kaminski Lenzi

## List of Publications by Year in descending order

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78  
papers

1,011  
citations

430874

18  
h-index

526287

27  
g-index

79  
all docs

79  
docs citations

79  
times ranked

1048  
citing authors

#	ARTICLE	IF	CITATIONS
1	Monitoring and Control of Polymerization Reactors Using NIR Spectroscopy. <i>Polymer-Plastics Technology and Engineering</i> , 2005, 44, 1-61.	1.9	83
2	Preparation and characterization of nickel based catalysts on silica, alumina and titania obtained by sol-gel method. <i>Journal of Non-Crystalline Solids</i> , 2006, 352, 3697-3704.	3.1	62
3	Monitoring and control of styrene solution polymerization using NIR spectroscopy. <i>Journal of Applied Polymer Science</i> , 2003, 90, 1273-1289.	2.6	48
4	Semibatch styrene suspension polymerization processes. <i>Journal of Applied Polymer Science</i> , 2003, 89, 3021-3038.	2.6	46
5	Adsorption and desorption of acetylsalicylic acid onto activated carbon of babassu coconut mesocarp. <i>Journal of Environmental Chemical Engineering</i> , 2019, 7, 102862.	6.7	44
6	Characterization and hydrogenation of methyl oleate over Ru/TiO <sub>2</sub> , Ru-Sn/TiO <sub>2</sub> catalysts. <i>Journal of Non-Crystalline Solids</i> , 2008, 354, 4865-4870.	3.1	33
7	Phase behaviour measurements for the system (carbon dioxide+biodiesel+ethanol) at high pressures. <i>Journal of Chemical Thermodynamics</i> , 2012, 47, 412-419.	2.0	31
8	Effect of grilling and baking on physicochemical and textural properties of tilapia ( <i>Oreochromis</i> ) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 46	2.8	29
9	Vacuum Drying Kinetics of Yacon ( <i>Smallanthus sonchifolius</i> ) and the Effect of Process Conditions on Fractal Dimension and Rehydration Capacity. <i>Drying Technology</i> , 2012, 30, 13-19.	3.1	27
10	Fractional nonlinear diffusion equation, solutions and anomalous diffusion. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2007, 375, 65-71.	2.6	26
11	Living Free Radical Polymerization in Tubular Reactors. I. Modeling of the Complete Molecular Weight Distribution Using Probability Generating Functions. <i>Macromolecular Reaction Engineering</i> , 2007, 1, 622-634.	1.5	26
12	Measurement of freezing point of tilapia fish burger using differential scanning calorimetry (DSC) and cooling curve method. <i>Journal of Food Engineering</i> , 2015, 161, 82-86.	5.2	26
13	Producing Bimodal Molecular Weight Distribution Polymer Resins Using Living and Conventional Free-Radical Polymerization. <i>Industrial &amp; Engineering Chemistry Research</i> , 2005, 44, 2568-2578.	3.7	25
14	Non-Markovian diffusion equation and diffusion in a porous catalyst. <i>Chemical Engineering Journal</i> , 2011, 172, 1083-1087.	12.7	22
15	Fractional diffusion equation with an absorbent term and a linear external force: Exact solution. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2007, 366, 346-350.	2.1	21
16	Fractional diffusion equation and Green function approach: Exact solutions. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2006, 360, 215-226.	2.6	20
17	Polyurethane Foams Based on Biopolyols from Castor Oil and Glycerol. <i>Journal of Polymers and the Environment</i> , 2018, 26, 2467-2475.	5.0	20
18	EFFECT OF VACUUM DRYING CONDITIONS ON THE QUALITY OF YACON ( <i>SMALLANTHUS SONCHIFOLIUS</i> ) SLICES: PROCESS OPTIMIZATION TOWARD COLOR QUALITY. <i>Journal of Food Processing and Preservation</i> , 2012, 36, 67-73.	2.0	19

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19	Characterization of tropical fruits: Rheology, stability and phenolic compounds. <i>Acta Alimentaria</i> , 2013, 42, 586-598.	0.7	19
20	A Survey of Fractional Order Calculus Applications of Multiple-Input, Multiple-Output (MIMO) Process Control. <i>Fractal and Fractional</i> , 2020, 4, 22.	3.3	19
21	“Living” Radical Polymerization in Tubular Reactors, 2 “ Process Optimization for Tailor-Made Molecular Weight Distributions. <i>Macromolecular Reaction Engineering</i> , 2008, 2, 414-421.	1.5	15
22	Some results for a fractional diffusion equation with radial symmetry in a confined region. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2009, 388, 806-810.	2.6	15
23	Solutions for a non-Markovian diffusion equation. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2010, 374, 4193-4198.	2.1	15
24	Fractional diffusion equations coupled by reaction terms. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2016, 458, 9-16.	2.6	14
25	Solutions for a fractional diffusion equation with spherical symmetry using Green function approach. <i>Chemical Physics</i> , 2008, 344, 90-94.	1.9	13
26	Solutions for a fractional diffusion equation with noninteger dimensions. <i>Nonlinear Analysis: Real World Applications</i> , 2012, 13, 1955-1960.	1.7	13
27	An extension of the linear Luikov system equations of heat and mass transfer. <i>International Journal of Heat and Mass Transfer</i> , 2013, 63, 233-238.	4.8	13
28	Reaction on a solid surface supplied by an anomalous mass transfer source. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2014, 410, 399-406.	2.6	13
29	Detecting Core-Shell Structure Formation Using near Infrared Spectroscopy. <i>Journal of Near Infrared Spectroscopy</i> , 2006, 14, 179-187.	1.5	12
30	Nonlinear diffusion equation and nonlinear external force: Exact solution. <i>Journal of Mathematical Physics</i> , 2006, 47, 103302.	1.1	12
31	Green function for a non-Markovian Fokker-Planck equation: comb-model and anomalous diffusion. <i>Brazilian Journal of Physics</i> , 2009, 39, 438-487.	1.4	11
32	Intermittent Motion, Nonlinear Diffusion Equation and Tsallis Formalism. <i>Entropy</i> , 2017, 19, 42.	2.2	11
33	Specific heat in the nonextensive statistics: effective temperature and Lagrange parameter $\hat{\Omega}^2$ . <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2002, 292, 315-319.	2.1	9
34	Exact solutions for a forced Burgers equation with a linear external force. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2008, 387, 2690-2696.	2.6	9
35	Cobalt, nickel and ruthenium-silica based materials synthesized by the sol-gel method. <i>Journal of Non-Crystalline Solids</i> , 2008, 354, 4811-4815.	3.1	9
36	Solutions for a mass transfer process governed by fractional diffusion equations with reaction terms. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2017, 48, 307-317.	3.3	9

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37	A fractional model to relative viscosity prediction of water-in-crude oil emulsions. Journal of Petroleum Science and Engineering, 2019, 172, 493-501.	4.2	9
38	Modeling of semibatch styrene suspension polymerization processes. Journal of Applied Polymer Science, 2005, 96, 1950-1967.	2.6	8
39	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.	2.1	8
40	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.	2.1	7
41	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
42	Nonlinear Fokker-Planck equations, H theorem, and entropies. Chinese Journal of Physics, 2017, 55, 1294-1299.	3.9	7
43	A Fractional Order Power System Stabilizer Applied on a Small-Scale Generation System. Energies, 2018, 11, 2052.	3.1	7
44	Modelagem da polimerizaçŁo simultŁnea de estireno em suspensŁo e emulsŁo. Polimeros, 2004, 14, 112-121.	0.7	6
45	Solutions for a fractional nonlinear diffusion equation with external force and absorbent term. Journal of Statistical Mechanics: Theory and Experiment, 2009, 2009, P02048.	2.3	6
46	Image analysis for composition monitoring. Commercial blends of olive and soybean oil. Acta Scientiarum - Technology, 2013, 35, .	0.4	6
47	&lt;b&gt;Freezing and thawing of processed meat in an industrial freezing tunnel&lt;b&gt;. Acta Scientiarum - Technology, 2014, 36, 361.	0.4	6
48	Anomalous Diffusion with an Irreversible Linear Reaction and Sorption-Desorption Process. Advances in Mathematical Physics, 2017, 2017, 1-7.	0.8	6
49	Mathematical modeling of fish burger baking using fractional calculus. Thermal Science, 2017, 21, 41-50.	1.1	6
50	A simple real-time process control experiment using serial communication. Computer Applications in Engineering Education, 2001, 9, 101-104.	3.4	5
51	Fractional control of an industrial furnace. Acta Scientiarum - Technology, 2010, 32, .	0.4	5
52	Fractional Order Pole Placement for a buck converter based on commensurable transfer function. ISA Transactions, 2020, 107, 370-384.	5.7	5
53	Water vapor permeation and morphology of polysulfone membranes prepared by phase inversion. Polimeros, 2020, 30, .	0.7	5
54	Liquid-liquid Equilibrium in Systems Containing Olive Oil, Free Fatty Acids, Ethanol and Water. Open Chemical Engineering Journal, 2016, 10, 10-17.	0.5	5

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55	Fractional Diffusion with Geometric Constraints: Application to Signal Decay in Magnetic Resonance Imaging (MRI). <i>Mathematics</i> , 2022, 10, 389.	2.2	5
56	Soluções para a equação de difusão com um termo não-local. <i>Acta Scientiarum - Technology</i> , 2009, 31, .	0.4	4
57	Simulation Studies of Steam Reforming of Methane using Ni-Al <sub>2</sub> O <sub>3</sub> Catalysts. <i>International Journal of Chemical Reactor Engineering</i> , 2010, 8, .	1.1	4
58	Fractional diffusion equation, boundary conditions and surface effects. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2014, 2014, P08019.	2.3	4
59	Nonlinear diffusion equation with reaction terms: Analytical and numerical results. <i>Applied Mathematics and Computation</i> , 2018, 330, 254-265.	2.2	4
60	Experimental validation of hindered settling models and flux theory applied in continuous flow process for harvesting <i>Acutodesmus obliquus</i> . <i>Canadian Journal of Chemical Engineering</i> , 2019, 97, 1903-1912.	1.7	4
61	Low-Cost Thermocouple Signal-Conditioning Module. <i>Journal of Chemical Education</i> , 2005, 82, 122.	2.3	3
62	Parametric Analysis of a Heavy Metal Sorption Isotherm Based on Fractional Calculus. <i>Mathematical Problems in Engineering</i> , 2013, 2013, 1-10.	1.1	3
63	Diffusion equations and different spatial fractional derivatives. <i>Acta Scientiarum - Technology</i> , 2014, 36, 657-662.	0.4	3
64	Diffusion in Heterogenous Media and Sorption Desorption Processes. <i>Fractal and Fractional</i> , 2021, 5, 183.	3.3	3
65	Spreadsheet for cyclone and hydrocyclone design considering nonspherical particle geometry. <i>Computer Applications in Engineering Education</i> , 2007, 15, 134-142.	3.4	2
66	Development of Multivariate Statistical-Based Tools for Monitoring of Sour Water Unit. <i>Computer Aided Chemical Engineering</i> , 2009, 27, 1479-1484.	0.5	2
67	Monitoring Liquid-Liquid Mixtures Using Fractional Calculus and Image Analysis. <i>Fractal and Fractional</i> , 2018, 2, 11.	3.3	2
68	Kinetic Modeling of $\text{scCO}_2$ -Assisted Levulinic Acid Esterification with Ethanol Using Amberlyst-15 as a Catalyst in a Batch Reactor. <i>Energy &amp; Fuels</i> , 2021, 35, 14770-14779.	5.1	2
69	Simulation of Multivariable Fractional Control Applied to Binary Distillation. <i>International Review of Chemical Engineering (IRECHE)</i> , 2017, 9, 60.	0.0	2
70	Equação da difusão fracionária não-linear: solução exata. <i>Acta Scientiarum - Technology</i> , 2006, 28, 47.	0.4	1
71	Some results for an $N$ -dimensional nonlinear diffusion equation with radial symmetry. <i>Journal of Engineering Mathematics</i> , 2010, 67, 233-240.	1.2	1
72	Fractional Diffusion Equation with Spherical Symmetry and Reactive Boundary Conditions. <i>Fundamenta Informaticae</i> , 2017, 151, 341-354.	0.4	1

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73	Kinetics and Equilibrium of Mercury Sorption by Three Different Types of Live Algae. Brazilian Archives of Biology and Technology, 0, 63, .	0.5	1
74	Optimization of Esterification Reaction Conditions Through the Analysis of the Main Significant Variables. , 2021, 1, .		1
75	Difusão anômala e equações fracionárias de difusão. Acta Scientiarum - Technology, 2005, 27, 123.	0.4	0
76	Equação de difusão não linear, soluções e difusão anômala. Acta Scientiarum - Technology, 2008, 29, .	0.4	0
77	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
78	PHYSICAL CHANGES OF TILAPIA FISH BURGER DURING FROZEN STORAGE. Boletim Centro De Pesquisa De Processamento De Alimentos, 2015, 33, .	0.2	0