Salvador Naya

List of Publications by Year
in descending order

70 papers	1,110 citations	471061 17 h-index	433756 31 g-index
71 all docs	71 docs citations	71 times ranked	1306 citing authors

#	Article	IF	Citations
1	A Logistic Approach for Kinetics of Isothermal Pyrolysis of Cellulose. Processes, 2021, 9, 551.	1.3	3
2	The Complexity of Lignin Thermal Degradation in the Isothermal Context. Processes, 2021, 9, 1154.	1.3	14
3	Modelling operative and routine learning curves in manoeuvres in locks and in transit in the expanded Panama Canal. Journal of Navigation, 2021, 74, 633-655.	1.0	1
4	Statistical Quality Control with the qcr Package. R Journal, 2021, 13, 194.	0.7	5
5	Robust bootstrapped Mandel's h and k statistics for outlier detection in interlaboratory studies. Chemometrics and Intelligent Laboratory Systems, 2021, 219, 104429.	1.8	3
6	Modeling and forecasting of Neopanamax vessel transit time for traffic management in the Panama Canal. Journal of Marine Science and Technology, 2020, 25, 379-396.	1.3	4
7	Constructing a Control Chart Using Functional Data. Mathematics, 2020, 8, 58.	1.1	17
8	Modeling of the Learning Curve Corresponding to the Transit Through the New Expanded Panama Canal. , 2020, , 124-133.		1
9	Automatic detection of defective crankshafts by image analysis and supervised classification. International Journal of Advanced Manufacturing Technology, 2019, 105, 3761-3777.	1.5	14
10	An artificial-vision- and statistical-learning-based method for studying the biodegradation of type I collagen scaffolds in bone regeneration systems. PeerJ, 2019, 7, e7233.	0.9	10
11	Industry 4.0. An Opportunity for the Relationship Between University and Shipbuilding in the Future. , 2019, , 169-177.		0
12	Case Study of Anomaly Detection and Quality Control of Energy Efficiency and Hygrothermal Comfort in Buildings. , 2019, , .		2
13	Functional extensions of Mandel's h and k statistics for outlier detection in interlaboratory studies. Chemometrics and Intelligent Laboratory Systems, 2018, 176, 134-148.	1.8	8
14	An educational environment based on digital image processing to support the learning process of biomaterials degradation in stem cells. , 2018, , .		0
15	Statistical degradation modelling of Poly(D,L-lactide-co-glycolide) copolymers for bioscaffold applications. PLoS ONE, 2018, 13, e0204004.	1.1	8
16	ILS: An R package for statistical analysis in Interlaboratory Studies. Chemometrics and Intelligent Laboratory Systems, 2018, 181, 11-20.	1.8	9
17	Estudio mÃ©trico sobre la actividad investigadora usando el software libre R: el caso del sistema universitario gallego. Investigacion Bibliotecologica, 2018, , 221.	0.0	3
18	Functional data analysis approach of Mandelâ€™s h and k statistics in Interlaboratory Studies. Contributions To Statistics, 2017, , 123-130.	0.2	1

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19	Assessing thermal comfort and energy efficiency in buildings by statistical quality control for autocorrelated data. Applied Energy, 2017, 190, 1-17.	5.1	31
20	Estimating the traction factor and designing the deck gear for the anchor handling tug. Proceedings of the Institution of Mechanical Engineers Part M: Journal of Engineering for the Maritime Environment, 2017, 231, 600-615.	0.3	4
21	Effect of Inaugurating the Third Set of Locks in the Panama Canal on Vessel Size, Manoeuvring and Lockage Time. Journal of Navigation, 2017, 70, 1205-1223.	1.0	7
22	Statistical classification of early and late wood through the growth rings using thermogravimetric analysis. Journal of Thermal Analysis and Calorimetry, 2017, 127, 499-506.	2.0	6
23	Statistical Modeling Applied to Deformation-Relaxation Processes in a Composite Biopolymer Network Induced by Magnetic Field. PLoS ONE, 2017, 12, e0169866.	1.1	6
24	Numerical and experimental study of a corrugated thermal collector. Case Studies in Thermal Engineering, 2016, 8, 41-50.	2.8	15
25	Creep analysis of silicone for podiatry applications. Journal of the Mechanical Behavior of Biomedical Materials, 2016, 63, 456-469.	1.5	15
26	Nonparametric Method for Estimating the Distribution of Time to Failure of Engineering Materials. Springer Proceedings in Mathematics and Statistics, 2016, , 211-224.	0.1	0
27	Nueva propuesta de Ãndices de capacidad robustos para el control de la calidad. DYNA (Colombia), 2016, 83, 94.	0.2	1
28	Thermogravimetric study of thermal degradation of polyetherimide. Journal of Applied Polymer Science, 2015, 132, .	1.3	8
29	Lifetime estimation applying a kinetic model based on the generalized logistic function to biopolymers. Journal of Thermal Analysis and Calorimetry, 2015, 122, 1203-1212.	2.0	7
30	Classification of wood using differential thermogravimetric analysis. Journal of Thermal Analysis and Calorimetry, 2015, 120, 541-551.	2.0	14
31	Simulation study for generalized logistic function in thermal data modeling. Journal of Thermal Analysis and Calorimetry, 2014, 118, 1253-1268.	2.0	27
32	Statistical functional approach for interlaboratory studies with thermal data. Journal of Thermal Analysis and Calorimetry, 2014, 118, 1229-1243.	2.0	12
33	Characterization of MWCNT/TPU systems by large amplitude oscillation shear. Journal of Thermal Analysis and Calorimetry, 2014, 115, 1727-1731.	2.0	5
34	Optimizing fitting parameters in thermogravimetry. Journal of Thermal Analysis and Calorimetry, 2014, 116, 1141-1151.	2.0	10
35	Impact estimates of the actions for the rehabilitation of energy efficiency in residential building. DYNA (Colombia), 2014, 81, 200.	0.2	5
36	New method for estimating shift factors in timeâ€“temperature superposition models. Journal of Thermal Analysis and Calorimetry, 2013, 113, 453-460.	2.0	38

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37	Estimating Water and Solid Impurities in Jet Fuel from ISO Codes. Energy & Fuels, 2013, 27, 7858-7867.	2.5	7
38	Wood identification using pressure DSC data. Journal of Chemometrics, 2013, 27, 475-487.	0.7	13
39	Thermogravimetric analysis of wood, holocellulose, and lignin from five wood species. Journal of Thermal Analysis and Calorimetry, 2012, 109, 1163-1167.	2.0	110
40	TMDSC phase angle for a better nanocomposite interphase identification. Journal of Thermal Analysis and Calorimetry, 2012, 109, 1277-1284.	2.0	3
41	A comprehensive classification of wood from thermogravimetric curves. Chemometrics and Intelligent Laboratory Systems, 2012, 118, 159-172.	1.8	33
42	New approach to the double melting peak of poly(<scp>l</scp>-lactic acid) observed by DSC. Journal of Materials Research, 2012, 27, 1379-1382.	1.2	36
43	Functional nonparametric classification of wood species from thermal data. Journal of Thermal Analysis and Calorimetry, 2011, 104, 87-100.	2.0	29
44	Comparison of olive, corn, soybean and sunflower oils by PDSC. Journal of Thermal Analysis and Calorimetry, 2011, 104, 169-175.	2.0	32
45	Thermal characterization of ammonium alum. Journal of Thermal Analysis and Calorimetry, 2011, 104, 127-130.	2.0	13
46	Temperature modulation in PDSC for monitoring the curing under pressure. Journal of Thermal Analysis and Calorimetry, 2011, 106, 101-107.	2.0	9
47	Estimating the reversing and nonâ€reversing heat flow from standard DSC curves in the glass transition region. Journal of Chemometrics, 2011, 25, 287-294.	0.7	16
48	Application of functional ANOVA to the study of thermal stability of microâ€“nano silica epoxy composites. Chemometrics and Intelligent Laboratory Systems, 2011, 105, 114-124.	1.8	32
49	Classification of wood micrographs by image segmentation. Chemometrics and Intelligent Laboratory Systems, 2011, 107, 351-362.	1.8	26
50	Comparative study of the dynamic glass transition temperature by DMA and TMDSC. Polymer Testing, 2010, 29, 1002-1006.	2.3	87
51	Oxidation Stability of Soy and Palm Based Biodiesels Evaluated by Pressure Differential Scanning Calorimetry. Journal of ASTM International, 2010, 7, 1-10.	0.2	3
52	Controversial effects of fumed silica on the curing and thermomechanical properties of epoxy composites. EXPRESS Polymer Letters, 2010, 4, 382-395.	1.1	33
53	Nonlinear regression checking via local polynomial smoothing with applications to thermogravimetric analysis. Journal of Chemometrics, 2009, 23, 275-282.	0.7	5
54	Effect of silica content on thermal stability of fumed silica/epoxy composites. Polymer Degradation and Stability, 2008, 93, 2133-2137.	2.7	98

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55	Study of the Degradation of a Polyesther-Polyurethane by TGA and the Logistic Mixture Model. Materials Science Forum, 2008, 587-588, 525-528.	0.3	2
56	Evaluating the logistic mixture model on real and simulated TG curves. Journal of Thermal Analysis and Calorimetry, 2007, 87, 223-227.	2.0	27
57	Separation of Overlapping Processes from TGA Data and Verification by EGA. , 2007, , 60-71.		3
58	Logistic mixture model versus Arrhenius for kinetic study of material degradation by dynamic thermogravimetric analysis. Journal of Chemometrics, 2006, 20, 158-163.	0.7	43
59	Study of the Cure of a Diglycidyl-Ether of Bisphenol-a (DGEBA) / Triethylenetetramine (TETA) Epoxy System by Non-Isothermal Differential Scanning Calorimetry (DSC). Materials Science Forum, 2006, 514-516, 1094-1098.	0.3	1
60	New Method for Material Classification from TGA Data by Nonparametric Regression. Materials Science Forum, 2006, 514-516, 1452-1456.	0.3	1
61	Comparing the tribological behaviour of an austenitic steel subjected to diverse thermal treatments. Wear, 2005, 258, 203-207.	1.5	12
62	Subtracting the water effect from DSC curves by using simultaneous TGA data. Thermochimica Acta, 2005, 428, 137-139.	1.2	33
63	Nonparametric two-stage plug-in adaptive smoothing for thermal analysis data. Journal of Statistical Computation and Simulation, 2005, 75, 39-54.	0.7	2
64	Polymer Degradation from the Thermal Analysis Point of View. Materials Research Society Symposia Proceedings, 2004, 851, 81.	0.1	1
65	Logistic approach to polymer degradation in dynamic TGA. Polymer Degradation and Stability, 2004, 85, 667-674.	2.7	57
66	Local polynomial estimation of TGA derivatives using logistic regression for pilot bandwidth selection. Thermochimica Acta, 2003, 406, 177-183.	1.2	15
67	Microstructural Changes in a Ni-Based Super-Alloy Induced by Thermal Treatment. Materials Science Forum, 2003, 426-432, 749-754.	0.3	0
68	Study of a Curing Reaction of an Epoxy Resin. Materials Science Forum, 2003, 426-432, 2163-2168.	0.3	3
69	DMTA study of a nickel-titanium wire. Magyar AprÃ³vad KÃ¶zlemÃ©nyek, 2002, 70, 199-207.	1.4	10
70	Thermooxidative Properties of Biodiesels and Other Biological Fuels. , 0, , .		0