

Maude Jimenez

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2572778/publications.pdf>

Version: 2024-02-01

97
papers

3,055
citations

186265
28
h-index

182427
51
g-index

97
all docs

97
docs citations

97
times ranked

2810
citing authors

#	ARTICLE	IF	CITATIONS
1	Deterministic lateral displacement for particle separation: a review. <i>Lab on A Chip</i> , 2014, 14, 4139-4158.	6.0	341
2	Intumescent fire protective coating: Toward a better understanding of their mechanism of action. <i>Thermochimica Acta</i> , 2006, 449, 16-26.	2.7	275
3	Characterization of the performance of an intumescent fire protective coating. <i>Surface and Coatings Technology</i> , 2006, 201, 979-987.	4.8	200
4	Polyallylamine- γ -montmorillonite as super flame retardant coating assemblies by layer-by layer deposition on polyamide. <i>Polymer Degradation and Stability</i> , 2013, 98, 627-634.	5.8	118
5	Multiscale Experimental Approach for Developing High-Performance Intumescent Coatings. <i>Industrial & Engineering Chemistry Research</i> , 2006, 45, 4500-4508.	3.7	108
6	Remediation of Heavy Metals by Biomolecules: A Review. <i>Critical Reviews in Environmental Science and Technology</i> , 2015, 45, 1644-1704.	12.8	85
7	Extreme Heat Shielding of Clay/Chitosan Nanobrick Wall on Flexible Foam. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 31686-31696.	8.0	81
8	Functionalization of Titanium Surfaces with Polymer Brushes Prepared from a Biomimetic RAFT Agent. <i>Macromolecules</i> , 2011, 44, 5883-5892.	4.8	69
9	Antifouling Biomimetic Liquid-Infused Stainless Steel: Application to Dairy Industrial Processing. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 26565-26573.	8.0	68
10	Comprehensive Study of the Influence of Different Aging Scenarios on the Fire Protective Behavior of an Epoxy Based Intumescent Coating. <i>Industrial & Engineering Chemistry Research</i> , 2013, 52, 729-743.	3.7	62
11	Intumescent coating of (polyallylamine-polyphosphates) deposited on polyamide fabrics via layer-by-layer technique. <i>Polymer Degradation and Stability</i> , 2014, 106, 158-164.	5.8	56
12	Self-stratifying coatings: A review. <i>Progress in Organic Coatings</i> , 2017, 110, 210-241.	3.9	53
13	High-Throughput Fire Testing for Intumescent Coatings. <i>Industrial & Engineering Chemistry Research</i> , 2006, 45, 7475-7481.	3.7	52
14	Microintumescent mechanism of flame-retardant water-based chitosan- γ -ammonium polyphosphate multilayer nanocoating on cotton fabric. <i>Journal of Applied Polymer Science</i> , 2016, 133, .	2.6	51
15	Layer-by-layer deposition of a TiO ₂ -filled intumescent coating and its effect on the flame retardancy of polyamide and polyester fabrics. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2015, 469, 1-10.	4.7	50
16	Kinetic analysis of the thermal degradation of an epoxy-based intumescent coating. <i>Polymer Degradation and Stability</i> , 2009, 94, 404-409.	5.8	48
17	Toward the understanding of the interfacial dairy fouling deposition and growth mechanisms at a stainless steel surface: A multiscale approach. <i>Journal of Colloid and Interface Science</i> , 2013, 404, 192-200.	9.4	48
18	A "Clickable" Titanium Surface Platform. <i>Langmuir</i> , 2010, 26, 15920-15924.	3.5	47

#	ARTICLE	IF	CITATIONS
19	Effect of basalt fibers dispersion on steel fire protection performance of epoxy-based intumescent coatings. <i>Progress in Organic Coatings</i> , 2018, 122, 229-238.	3.9	44
20	Novel flame retardant flexible polyurethane foam: plasma induced graft-polymerization of phosphonates. <i>RSC Advances</i> , 2015, 5, 63853-63865.	3.6	42
21	Chitosan-grafted nonwoven geotextile for heavy metals sorption in sediments. <i>Reactive and Functional Polymers</i> , 2013, 73, 53-59.	4.1	39
22	Effect of Cold Plasma Treatment on Electrospun Nanofibers Properties: A Review. <i>ACS Applied Bio Materials</i> , 2020, 3, 4696-4716.	4.6	37
23	Latest trends for structural steel protection by using intumescent fire protective coatings: a review. <i>Surface Engineering</i> , 2020, 36, 334-363.	2.2	36
24	Fire retardant sol-gel coated polyurethane foam: Mechanism of action. <i>Polymer Degradation and Stability</i> , 2018, 147, 159-167.	5.8	35
25	Intumescent ethylene-vinyl acetate copolymer: Reaction to fire and mechanistic aspects. <i>Polymer Degradation and Stability</i> , 2019, 161, 235-244.	5.8	35
26	Anticoagulant and antimicrobial finishing of non-woven polypropylene textiles. <i>Biomedical Materials (Bristol)</i> , 2012, 7, 035001.	3.3	30
27	Hexagonal Boron Nitride Platelet-Based Nanocoating for Fire Protection. <i>ACS Applied Nano Materials</i> , 2019, 2, 5450-5459.	5.0	30
28	Pyrolysis modeling, sensitivity analysis, and optimization techniques for combustible materials: A review. <i>Journal of Fire Sciences</i> , 2019, 37, 377-433.	2.0	30
29	Quantifying the effects of basalt fibers on thermal degradation and fire performance of epoxy-based intumescent coating for fire protection of steel substrate. <i>Progress in Organic Coatings</i> , 2019, 132, 148-158.	3.9	30
30	Thin coatings for fire protection: An overview of the existing strategies, with an emphasis on layer-by-layer surface treatments and promising new solutions. <i>Progress in Organic Coatings</i> , 2021, 154, 106217.	3.9	29
31	Revealing the impact of ageing on a flame retarded PLA. <i>Polymer Degradation and Stability</i> , 2016, 127, 88-97.	5.8	28
32	Recent advances on the ageing of flame retarded PLA: Effect of UV-light and/or relative humidity. <i>Polymer Degradation and Stability</i> , 2017, 139, 143-164.	5.8	28
33	Biomimetic surface modifications of stainless steel targeting dairy fouling mitigation and bacterial adhesion. <i>Food and Bioproducts Processing</i> , 2019, 113, 32-38.	3.6	28
34	New routes to flame retard polyamide 6,6 for electrical applications. <i>Journal of Fire Sciences</i> , 2012, 30, 535-551.	2.0	27
35	Effect of the calcium/protein molar ratio on \hat{I}^2 -lactoglobulin denaturation kinetics and fouling phenomena. <i>International Dairy Journal</i> , 2018, 78, 1-10.	3.0	27
36	Fire protection of polypropylene and polycarbonate by intumescent coatings. <i>Polymers for Advanced Technologies</i> , 2012, 23, 130-135.	3.2	26

#	ARTICLE	IF	CITATIONS
37	Self-stratifying epoxy/silicone coatings. <i>Progress in Organic Coatings</i> , 2017, 103, 101-110.	3.9	26
38	Influence of stainless steel surface properties on whey protein fouling under industrial processing conditions. <i>Journal of Food Engineering</i> , 2018, 228, 38-49.	5.2	25
39	Characterization of a plasma polymer coating from an organophosphorus silane deposited at atmospheric pressure for fire-retardant purposes. <i>Progress in Organic Coatings</i> , 2015, 88, 39-47.	3.9	24
40	Atmospheric pressure plasma spraying of silane-based coatings targeting whey protein fouling and bacterial adhesion management. <i>Applied Surface Science</i> , 2018, 455, 392-402.	6.1	24
41	Intumescent polypropylene: Reaction to fire and mechanistic aspects. <i>Fire Safety Journal</i> , 2019, 105, 261-269.	3.1	23
42	Mechanistic investigation of a flame retardant coating made by layer-by-layer assembly. <i>RSC Advances</i> , 2014, 4, 43326-43334.	3.6	22
43	Pregnancy outcomes of prenatally diagnosed Turner syndrome: a French multicenter retrospective study including a series of 975 cases. <i>Prenatal Diagnosis</i> , 2014, 34, 1133-1138.	2.3	20
44	Aging of the flame-retardant properties of polycarbonate and polypropylene protected by an intumescent coating. <i>Journal of Applied Polymer Science</i> , 2014, 131, .	2.6	20
45	Topcoats versus Durability of an Intumescent Coating. <i>Industrial & Engineering Chemistry Research</i> , 2016, 55, 9625-9632.	3.7	20
46	Flame retardant and weathering resistant self-layering epoxy-silicone coatings for plastics. <i>Progress in Organic Coatings</i> , 2019, 136, 105269.	3.9	20
47	Fire retardant sol-gel coatings for flexible polyurethane foams. <i>RSC Advances</i> , 2016, 6, 28543-28554.	3.6	19
48	Enhanced fire retardant properties of glass-fiber reinforced Polyamide 6,6 by combining bulk and surface treatments: Toward a better understanding of the fire-retardant mechanism. <i>Polymer Degradation and Stability</i> , 2013, 98, 1378-1388.	5.8	18
49	Cysteine-grafted nonwoven geotextile: A new and efficient material for heavy metals sorption – Part A. <i>Journal of Environmental Management</i> , 2014, 132, 107-112.	7.8	18
50	Improvement of heat resistance of high performance fibers using a cold plasma polymerization process. <i>Surface and Coatings Technology</i> , 2010, 205, 745-758.	4.8	17
51	Getting a better insight into the chemistry of decomposition of complex flame retarded formulation: New insights using solid state NMR. <i>Polymer Degradation and Stability</i> , 2018, 153, 145-154.	5.8	17
52	Additive manufacturing of fire-retardant ethylene-vinyl acetate. <i>Polymers for Advanced Technologies</i> , 2019, 30, 1878-1890.	3.2	17
53	Self-stratified bio-based coatings: Formulation and elucidation of critical parameters governing stratification. <i>Applied Surface Science</i> , 2021, 536, 147687.	6.1	17
54	Cysteine-grafted nonwoven geotextile: A new and efficient material for heavy metals sorption – Part B. <i>Journal of Environmental Management</i> , 2014, 143, 99-105.	7.8	16

#	ARTICLE	IF	CITATIONS
55	Fractal conceptualization of intumescent fire barriers, toward simulations of virtual morphologies. <i>Scientific Reports</i> , 2019, 9, 1872.	3.3	16
56	Intumescence as method for providing fire resistance to structural composites: application to poly(ethylene terephthalate) foam sandwich-structured composite. <i>Composite Interfaces</i> , 2013, 20, 269-277.	2.3	15
57	Investigating the Effect of an Antifouling Surface Modification on the Environmental Impact of a Pasteurization Process: An LCA Study. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 9133-9142.	6.7	15
58	Antifouling amphiphilic silicone coatings for dairy fouling mitigation on stainless steel. <i>Biofouling</i> , 2018, 34, 769-783.	2.2	14
59	Intumescent Polymer Metal Laminates for Fire Protection. <i>Polymers</i> , 2018, 10, 995.	4.5	14
60	3D printed sandwich materials filled with hydrogels for extremely low heat release rate. <i>Polymer Degradation and Stability</i> , 2020, 179, 109269.	5.8	14
61	Innovative 3D printed design to conceive highly fire-retardant multi-material. <i>Polymer Degradation and Stability</i> , 2019, 169, 108992.	5.8	13
62	Selective biological response of human pulmonary microvascular endothelial cells and human pulmonary artery smooth muscle cells on cold-plasma-modified polyester vascular prostheses. <i>Biomedical Materials (Bristol)</i> , 2011, 6, 065003.	3.3	12
63	Influence of processing gases on the properties of cold atmospheric plasma SiO _x C _y coatings. <i>Applied Surface Science</i> , 2014, 315, 531-537.	6.1	11
64	Simultaneous immobilization of heparin and gentamicin on polypropylene textiles: A dual therapeutic activity. <i>Journal of Biomedical Materials Research - Part A</i> , 2014, 102, 3846-3854.	4.0	10
65	One pot flame retardant and weathering resistant coatings for plastics: a novel approach. <i>RSC Advances</i> , 2017, 7, 40682-40694.	3.6	10
66	Ultrasonic Adhesion Measurement of Whey Protein Fouling. <i>Heat Transfer Engineering</i> , 2015, 36, 771-779.	1.9	9
67	A critical review on surface modifications mitigating dairy fouling. <i>Comprehensive Reviews in Food Science and Food Safety</i> , 2021, 20, 4324-4366.	11.7	9
68	Antifouling Stainless Steel Surface: Competition between Roughness and Surface Energy. <i>Materials Science Forum</i> , 0, 706-709, 2523-2528.	0.3	8
69	Tyrosine: an efficient natural molecule for copper remediation. <i>Green Materials</i> , 2015, 3, 1-9.	2.1	8
70	Self-Stratification of Ternary Systems Including a Flame Retardant Liquid Additive. <i>Coatings</i> , 2018, 8, 448.	2.6	8
71	Low-Emissivity Metal/Dielectric Coatings as Radiative Barriers for the Fire Protection of Raw and Formulated Polymers. <i>ACS Applied Polymer Materials</i> , 2020, 2, 2880-2889.	4.4	8
72	Effect of the phosphate/calcium molar ratio on fouling deposits generated by the processing of a whey protein isolate in a plate heat exchanger. <i>Food and Bioproducts Processing</i> , 2020, 121, 154-165.	3.6	8

#	ARTICLE	IF	CITATIONS
73	Calcium Chelation by Phosphate Ions and Its Influence on Fouling Mechanisms of Whey Protein Solutions in a Plate Heat Exchanger. <i>Foods</i> , 2021, 10, 259.	4.3	8
74	A Facile Technique to Extract the Cross-Sectional Structure of Brittle Porous Chars from Intumescent Coatings. <i>Polymers</i> , 2019, 11, 640.	4.5	7
75	Intumescent polypropylene: Interactions between physical and chemical expansion. <i>Fire and Materials</i> , 2021, 45, 387-395.	2.0	7
76	Modeling heat transfers across a silicone-based intumescent coating. <i>Journal of Physics: Conference Series</i> , 2018, 1107, 032012.	0.4	6
77	Synergistic effect of basalt fiber on the thermal properties of intumescent fire retardant coating. <i>Materials Today: Proceedings</i> , 2019, 16, 2030-2038.	1.8	6
78	A new approach to design self stratifying coatings containing nano and micro pigments. <i>Journal of Dispersion Science and Technology</i> , 2020, 41, 902-908.	2.4	6
79	Combining Low-Emissivity Thin Coating and 3D-Printed Original Designs for Superior Fire-Protective Performance. <i>ACS Omega</i> , 2020, 5, 27857-27863.	3.5	5
80	Formulation of eco-friendly sol-gel coatings to flame-retard flexible polyurethane foam. <i>Green Materials</i> , 2020, 8, 139-149.	2.1	5
81	Bilayer Intumescent Paint Metal Laminates: A Novel Design for a High-Performance Fire Barrier. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 2988-2997.	3.7	5
82	An innovative method to functionalize textiles for the remediation of polluted media. <i>Applied Surface Science</i> , 2015, 330, 111-117.	6.1	4
83	High speed atmospheric plasma deposition of transparent ZnO thin films without post-deposition annealing. <i>Thin Solid Films</i> , 2015, 589, 161-164.	1.8	4
84	Characterization of in-flame soot from balsa composite combustion during mass loss cone calorimeter tests. <i>Polymer Degradation and Stability</i> , 2018, 154, 304-311.	5.8	4
85	PCL covered PP meshes plasma-grafted by sulfonated monomer for the prevention of postoperative abdominal adhesions. <i>Materials Today Communications</i> , 2021, 26, 101968.	1.9	4
86	Innovative fouling-resistant materials for industrial heat exchangers: a review. <i>Reviews in Chemical Engineering</i> , 2023, 39, 71-104.	4.4	4
87	Flame Retardancy of Lightweight Sandwich Composites. <i>Journal of Composites Science</i> , 2021, 5, 274.	3.0	4
88	Fire Testing of Intumescent Coatings: Comparison Between Bench-Scale Furnace and Radiant Panels Experimental Methodologies. <i>Fire Technology</i> , 2022, 58, 1737-1766.	3.0	4
89	Transparent fire protective sol-gel coating for wood panels. <i>Polymer Testing</i> , 2022, 110, 107579.	4.8	4
90	Graphite-based composites for whey protein fouling and bacterial adhesion management. <i>International Dairy Journal</i> , 2018, 86, 69-75.	3.0	3

#	ARTICLE	IF	CITATIONS
91	Life cycle assessment of multi-step versus one-step coating processes using oil or bio-based resins. Journal of Cleaner Production, 2020, 242, 118527.	9.3	3
92	The electron microanalyzer (EPMA): a powerful device for the microanalysis of filled polymeric materials. Polymers for Advanced Technologies, 2015, 26, 1020-1026.	3.2	2
93	Sorption of heavy metals on a chitosan-grafted-polypropylene nonwoven geotextile. E3S Web of Conferences, 2013, 1, 05003.	0.5	1
94	Development anti-dairy fouling surface of 316L 2B stainless steel by atmospheric pressure plasma treatment. , 2014, , .		1
95	Simultaneous antibacterial and anticoagulant properties of polypropylene non-woven textiles. MATEC Web of Conferences, 2013, 7, 04014.	0.2	0
96	Maze running into intumescence: mechanistic aspects in polypropylene. Journal of Physics: Conference Series, 2018, 1107, 032001.	0.4	0
97	An efficient bi-layer intumescent paint metal laminate fire barrier for various substrates: Extension to other application. European Journal of Materials, 2021, 1, 19-33.	2.6	0