

# Fernando Alba-ElÃ- as

## List of Publications by Year in descending order

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Version: 2024-02-01

54  
papers

781  
citations

516710  
16  
h-index

552781  
26  
g-index

55  
all docs

55  
docs citations

55  
times ranked

819  
citing authors

#	ARTICLE	IF	CITATIONS
1	A Review on Non-thermal Atmospheric Plasma for Food Preservation: Mode of Action, Determinants of Effectiveness, and Applications. <i>Frontiers in Microbiology</i> , 2019, 10, 622.	3.5	155
2	Bioremediation of Waste Water to Remove Heavy Metals Using the Spent Mushroom Substrate of <i>Agaricus bisporus</i> . <i>Water (Switzerland)</i> , 2019, 11, 454.	2.7	42
3	Student evaluation of a virtual experience for project management learning: An empirical study for learning improvement. <i>Computers and Education</i> , 2016, 102, 172-187.	8.3	39
4	Atmospheric plasma-polymerization of hydrophobic and wear-resistant coatings on glass substrates. <i>Surface and Coatings Technology</i> , 2014, 259, 374-385.	4.8	32
5	Tribological behavior of plasma-polymerized aminopropyltriethoxysilane films deposited on thermoplastic elastomers substrates. <i>Thin Solid Films</i> , 2013, 540, 125-134.	1.8	28
6	Influence of DBD Inlet Geometry on the Homogeneity of Plasma-Polymerized Acrylic Acid Films: The Use of a Microplasma-Electrode Inlet Configuration. <i>Plasma Processes and Polymers</i> , 2015, 12, 1153-1163.	3.0	28
7	Production of Antibacterial Coatings Through Atmospheric Pressure Plasma: a Promising Alternative for Combatting Biofilms in the Food Industry. <i>Food and Bioprocess Technology</i> , 2019, 12, 1251-1263.	4.7	27
8	A neural network-based approach for optimising rubber extrusion lines. <i>International Journal of Computer Integrated Manufacturing</i> , 2007, 20, 828-837.	4.6	26
9	Combining regression trees and the finite element method to define stress models of highly non-linear mechanical systems. <i>Journal of Strain Analysis for Engineering Design</i> , 2009, 44, 491-502.	1.8	22
10	Deposition of thin-films on EPDM substrate with a plasma-polymerized coating. <i>Surface and Coatings Technology</i> , 2011, 206, 234-242.	4.8	20
11	Hydrophobicity attainment and wear resistance enhancement on glass substrates by atmospheric plasma-polymerization of mixtures of an aminosilane and a fluorocarbon. <i>Applied Surface Science</i> , 2015, 347, 325-335.	6.1	20
12	Comparison of Cohesive Models in EDEM and LIGGGHTS for Simulating Powder Compaction. <i>Materials</i> , 2018, 11, 2341.	2.9	20
13	Valorization of bio-waste for the removal of aluminum from industrial wastewater. <i>Journal of Cleaner Production</i> , 2020, 264, 121608.	9.3	20
14	An analytical method for measuring competence in project management. <i>British Journal of Educational Technology</i> , 2016, 47, 1324-1339.	6.3	19
15	Atmospheric pressure cold plasma anti-biofilm coatings for 3D printed food tools. <i>Innovative Food Science and Emerging Technologies</i> , 2020, 64, 102404.	5.6	18
16	Enhanced surface friction coefficient and hydrophobicity of TPE substrates using an APPJ system. <i>Applied Surface Science</i> , 2015, 328, 554-567.	6.1	17
17	Modelling of an elastomer profile extrusion process using support vector machines (SVM). <i>Journal of Materials Processing Technology</i> , 2008, 197, 161-169.	6.3	15
18	Composting of Spent Mushroom Substrate and Winery Sludge. <i>Compost Science and Utilization</i> , 2015, 23, 58-65.	1.2	15

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19	Promotion of tribological and hydrophobic properties of a coating on TPE substrates by atmospheric plasma-polymerization. <i>Applied Surface Science</i> , 2016, 371, 50-60.	6.1	15
20	Atmospheric pressure air plasma treatment of glass substrates for improved silver/glass adhesion in solar mirrors. <i>Solar Energy Materials and Solar Cells</i> , 2017, 169, 287-296.	6.2	15
21	Improvement and optimisation of hot dip galvanising line using neural networks and genetic algorithms. <i>Ironmaking and Steelmaking</i> , 2006, 33, 344-352.	2.1	14
22	Fine tuning straightening process using genetic algorithms and finite element methods. <i>Ironmaking and Steelmaking</i> , 2010, 37, 119-125.	2.1	14
23	Segregation in the tank of a rotary tablet press machine using experimental and discrete element methods. <i>Powder Technology</i> , 2018, 328, 452-469.	4.2	14
24	Antibiofilm coatings through atmospheric pressure plasma for 3D printed surgical instruments. <i>Surface and Coatings Technology</i> , 2020, 399, 126163.	4.8	14
25	Development and characterization of anti-biofilm coatings applied by Non-Equilibrium Atmospheric Plasma on stainless steel. <i>Food Research International</i> , 2022, 152, 109891.	6.2	13
26	Development of neural network-based models to predict mechanical properties of hot dip galvanised steel coils. <i>International Journal of Data Mining, Modelling and Management</i> , 2011, 3, 389.	0.1	10
27	Reducing friction on glass substrates by atmospheric plasma-polymerization of APTES. <i>Surface and Coatings Technology</i> , 2017, 309, 1062-1071.	4.8	9
28	Effect of the Atmospheric Pressure Cold Plasma Treatment on Tempranillo Red Wine Quality in Batch and Flow Systems. <i>Beverages</i> , 2019, 5, 50.	2.8	9
29	Antifriction aminopropyltriethoxysilane films on thermoplastic elastomer substrates using an APPJ system. <i>Surface and Coatings Technology</i> , 2017, 310, 239-250.	4.8	8
30	Atmospheric-pressure plasma treatments of NBR for the improvement of adhesion in footwear applications. <i>International Journal of Adhesion and Adhesives</i> , 2021, 108, 102865.	2.9	8
31	Promotion of biofilm production via atmospheric-pressure plasma-polymerization for biomedical applications. <i>Applied Surface Science</i> , 2022, 581, 152350.	6.1	8
32	Advanced predictive system using artificial intelligence for cleaning of steel coils. <i>Ironmaking and Steelmaking</i> , 2014, 41, 262-269.	2.1	7
33	Atmospheric pressure air plasma treatment to improve the 3D printing of polyoxymethylene. <i>Plasma Processes and Polymers</i> , 2019, 16, e1900020.	3.0	7
34	Application of atmospheric pressure cold plasma to sanitize oak wine barrels. <i>LWT - Food Science and Technology</i> , 2021, 139, 110509.	5.2	7
35	Advanced predictive quality control strategy involving different facilities. <i>International Journal of Advanced Manufacturing Technology</i> , 2013, 67, 1245-1256.	3.0	6
36	Durability Assessment of a Plasma-Polymerized Coating with Anti-Biofilm Activity against <i>L. monocytogenes</i> Subjected to Repeated Sanitization. <i>Foods</i> , 2021, 10, 2849.	4.3	6

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37	A New Device for Dosing Additives in the Food Industry Using Quality Function Deployment. Journal of Food Process Engineering, 2014, 37, 387-395.	2.9	5
38	An Online Assessment and Feedback Approach in Project Management Learning. , 2017, , .		5
39	Numerical Modeling for Simulation of Compaction of Refractory Materials for Secondary Steelmaking. Materials, 2020, 13, 224.	2.9	4
40	Improvement of the adhesive capacity of SBR for footwear outsoles by surface activation and coating deposition with atmospheric pressure plasma. Plasma Processes and Polymers, 2021, 18, 2100046.	3.0	4
41	Competence Assessment Framework for Project Management Learners and Practitioners. Communications in Computer and Information Science, 2015, , 225-241.	0.5	3
42	An improved way for evaluating competences: A different approach to project management learning. , 2011, , .		2
43	An intelligent supervision system for open loop controlled processes. Journal of Intelligent Manufacturing, 2013, 24, 15-24.	7.3	2
44	Improving the feeder shoe design of an eccentric tablet press machine. Powder Technology, 2020, 372, 542-562.	4.2	2
45	Inhibition of biofilm formation on polystyrene substrates by atmospheric pressure plasma polymerization of siloxane-based coatings. Plasma Processes and Polymers, 2021, 18, e2100097.	3.0	2
46	Realistic modelling and optimisation of steel section cooling process. Ironmaking and Steelmaking, 2011, 38, 17-27.	2.1	1
47	An ICT based project management learning framework. , 2013, , .		1
48	Analysis of the Online Interactions of Students in the Project Management Learning Process. Advances in Intelligent Systems and Computing, 2018, , 743-750.	0.6	1
49	Data Mining to Identify Project Management Strategies in Learning Environments. , 2018, , 1934-1946.		1
50	ENGAGING ENGINEERING STUDENTS WITH DAILY STUDY THROUGH FLIPPED CLASSROOM & GAMIFICATION EXPERIENCE. , 2018, , .		1
51	Computer-Assisted Method Based on Continuous Feedback to Improve the Academic Achievements of Engineering Students. Communications in Computer and Information Science, 2018, , 390-403.	0.5	0
52	A Model for Competence E-Assessment and Feedback in Higher Education. Advances in Higher Education and Professional Development Book Series, 2019, , 295-311.	0.2	0
53	Data Mining to Identify Project Management Strategies in Learning Environments. Advances in Computer and Electrical Engineering Book Series, 2019, , 532-545.	0.3	0
54	BIM AND SPANISH HIGHER EDUCATION. , 2020, , .		0