

Antonio A Portugal

List of Publications by Year in descending order

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78
papers

2,897
citations

279798

23
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168389

53
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all docs

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docs citations

78
times ranked

3207
citing authors

#	ARTICLE	IF	CITATIONS
1	Biorefining of <i>Pinus pinaster</i> Stump Wood for Ethanol Production and Lignin Recovery. <i>Chemical Engineering and Technology</i> , 2021, 44, 1043-1050.	1.5	5
2	Clean syngas production by gasification of lignocellulosic char: State of the art and future prospects. <i>Journal of Industrial and Engineering Chemistry</i> , 2021, 101, 1-20.	5.8	10
3	Reinforcement Strategies of Silica Aerogels for Thermal Insulation Applications. <i>Proceedings (mdpi)</i> , 2020, 57, 2.	0.2	0
4	Production of Aromatic Compounds by Catalytic Depolymerization of Technical and Downstream Biorefinery Lignins. <i>Biomolecules</i> , 2020, 10, 1338.	4.0	12
5	New insights in the fractionation of <i>Pinus pinaster</i> wood: sequential autohydrolysis, soda ethanol organosolv and acidic precipitation. <i>Industrial Crops and Products</i> , 2020, 152, 112499.	5.2	18
6	Optimization of Polyamide Pulp-Reinforced Silica Aerogel Composites for Thermal Protection Systems. <i>Polymers</i> , 2020, 12, 1278.	4.5	18
7	COMPARAÇÃO DE PROCESSOS E TIPOS DE 2ª GERAÇÃO DE BIOCOMBUSTÍVEIS: UMA AVALIAÇÃO DO POTENCIAL BRASILEIRO E PORTUGUÊS. <i>Revista Gestão & Sustentabilidade Ambiental</i> , 2020, 9, 255.	0.1	0
8	Syngas production via catalytic oxidative steam reforming of glycerol using a Co/Al coprecipitated catalyst and different bed fillers. <i>Fuel Processing Technology</i> , 2019, 189, 120-133.	7.2	24
9	Influence of Structure-Directing Additives on the Properties of Poly(methylsilsesquioxane) Aerogel-Like Materials. <i>Gels</i> , 2019, 5, 6.	4.5	11
10	Gasification of Charcoal in Air, Oxygen, and Steam Mixtures over a $\gamma\text{-Al}_2\text{O}_3$ Fluidized Bed. <i>Energy & Fuels</i> , 2018, 32, 406-415.	5.1	6
11	Liquid-Phase Hydrodeoxygenation of Guaiacol over Mo ₂ C Supported on Commercial CNF. Effects of Operating Conditions on Conversion and Product Selectivity. <i>Catalysts</i> , 2018, 8, 127.	3.5	28
12	Towards improved adsorption of phenolic compounds by surface chemistry tailoring of silica aerogels. <i>Journal of Sol-Gel Science and Technology</i> , 2017, 84, 409-421.	2.4	9
13	Exploring the Versatile Surface Chemistry of Silica Aerogels for Multipurpose Application. <i>MRS Advances</i> , 2017, 2, 3511-3519.	0.9	17
14	Spectroscopic characterization of silica aerogels prepared using several precursors – effect on the formation of molecular clusters. <i>New Journal of Chemistry</i> , 2017, 41, 6742-6759.	2.8	25
15	Adsorption of phenol on silica aerogels using a stirred tank and a fixed bed column. <i>Ciência & Tecnologia Dos Materiais</i> , 2017, 29, e229-e233.	0.5	6
16	Methylsilsesquioxane-Based Aerogel Systems – Insights into the Role of the Formation of Molecular Clusters. <i>Journal of Physical Chemistry A</i> , 2016, 120, 4079-4088.	2.5	21
17	A new trend for development of mechanically robust hybrid silica aerogels. <i>Materials Letters</i> , 2016, 179, 206-209.	2.6	19
18	High Antimicrobial Activity and Low Human Cell Cytotoxicity of Core-Shell Magnetic Nanoparticles Functionalized with an Antimicrobial Peptide. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 11366-11378.	8.0	56

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19	Novel flexible, hybrid aerogels with vinyl- and methyltrimethoxysilane in the underlying silica structure. <i>Journal of Materials Science</i> , 2016, 51, 6781-6792.	3.7	48
20	Effect of supplementary cementitious materials on autogenous shrinkage of ultra-high performance concrete. <i>Construction and Building Materials</i> , 2016, 127, 43-48.	7.2	187
21	Synthesis and biomedical applications of aerogels: Possibilities and challenges. <i>Advances in Colloid and Interface Science</i> , 2016, 236, 1-27.	14.7	270
22	Design of multifunctional magnetic hybrid silica aerogels with improved properties. <i>Microporous and Mesoporous Materials</i> , 2016, 232, 227-237.	4.4	16
23	Liquid glycerol: Experimental densities at pressures of up to 25 MPa, and some derived thermodynamic properties. <i>Journal of Chemical Thermodynamics</i> , 2016, 101, 64-77.	2.0	15
24	Nanocrystalline ZnO Thin Films – Influence of Sol-gel Conditions on the Underlying Chemistry and Film Microstructure and Transparency. <i>Materials Today: Proceedings</i> , 2015, 2, 49-56.	1.8	6
25	Controlled phase formation of nanocrystalline iron oxides/hydroxides in solution – An insight on the phase transformation mechanisms. <i>Materials Chemistry and Physics</i> , 2015, 163, 88-98.	4.0	22
26	Effect of additives on the properties of silica based aerogels synthesized from methyltrimethoxysilane (MTMS). <i>Journal of Supercritical Fluids</i> , 2015, 106, 85-92.	3.2	39
27	Silica-based aerogels as adsorbents for phenol-derivative compounds. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2015, 480, 260-269.	4.7	60
28	Development of Mechanically Strong Ambient Pressure Dried Silica Aerogels with Optimized Properties. <i>Journal of Physical Chemistry C</i> , 2015, 119, 7689-7703.	3.1	79
29	Synthesis of mechanically reinforced silica aerogels via surface-initiated reversible addition-fragmentation chain transfer (RAFT) polymerization. <i>Journal of Materials Chemistry A</i> , 2015, 3, 1594-1600.	10.3	85
30	Correlation and prediction of biodiesel density for extended ranges of temperature and pressure. <i>Fuel</i> , 2015, 141, 23-38.	6.4	35
31	Development of an Innovative 3D Simulator for Structured Polymeric Fibrous Materials and Liquid Droplets. <i>Advanced Structured Materials</i> , 2015, , 301-321.	0.5	2
32	The effect of nanosilica addition on flowability, strength and transport properties of ultra high performance concrete. <i>Materials & Design</i> , 2014, 59, 1-9.	5.1	318
33	An overview on silica aerogels synthesis and different mechanical reinforcing strategies. <i>Journal of Non-Crystalline Solids</i> , 2014, 385, 55-74.	3.1	555
34	Synthesis of lightweight polymer-reinforced silica aerogels with improved mechanical and thermal insulation properties for space applications. <i>Microporous and Mesoporous Materials</i> , 2014, 197, 116-129.	4.4	115
35	Poly(ethylene glycol)-block-poly(4-vinyl pyridine) as a versatile block copolymer to prepare nanoaggregates of superparamagnetic iron oxide nanoparticles. <i>Journal of Materials Chemistry B</i> , 2014, 2, 1565.	5.8	22
36	Speed of sound in pure fatty acid methyl esters and biodiesel fuels. <i>Fuel</i> , 2014, 116, 242-254.	6.4	39

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37	Silica based aerogel-like materials obtained by quick microwave drying. <i>Materialwissenschaft Und Werkstofftechnik</i> , 2013, 44, 380-385.	0.9	18
38	Effect of the Drying Conditions on the Microstructure of Silica Based Xerogels and Aerogels. <i>Journal of Nanoscience and Nanotechnology</i> , 2012, 12, 6828-6834.	0.9	56
39	Comparison of Two Robust Alternatives to the Box-Cox Draper Determinant Criterion in Multiresponse Kinetic Parameter Estimation. <i>Industrial & Engineering Chemistry Research</i> , 2012, 51, 1118-1130.	3.7	0
40	Sol-gel synthesis and washing of amorphous γ -FeO(OH) xerogels. <i>Materialwissenschaft Und Werkstofftechnik</i> , 2012, 43, 427-434.	0.9	4
41	Biodiesel obtained from supercritical carbon dioxide oil of <i>Cynara cardunculus</i> L.. <i>Journal of Supercritical Fluids</i> , 2012, 68, 52-63.	3.2	25
42	Measurements of pVT, viscosity, and surface tension of trihexyltetradecylphosphonium tris(pentafluoroethyl)trifluorophosphate ionic liquid and modelling with equations of state. <i>Journal of Chemical Thermodynamics</i> , 2012, 47, 183-196.	2.0	43
43	MgAl ₂ O ₄ spinel synthesis by combustion and detonation reactions: A thermochemical evaluation. <i>Journal of the European Ceramic Society</i> , 2012, 32, 3161-3170.	5.7	24
44	Study of the suitability of silica based xerogels synthesized using ethyltrimethoxysilane and/or methyltrimethoxysilane precursors for aerospace applications. <i>Journal of Sol-Gel Science and Technology</i> , 2012, 61, 151-160.	2.4	47
45	1D AND 2D MODELING AND SIMULATION OF RADIAL COMBUSTION PROPAGATION ON Fe ₂ O ₃ /Al THERMITE SYSTEMS. <i>Computational Thermal Sciences</i> , 2012, 4, 137-149.	0.9	4
46	Characterization of iron(III) oxide/hydroxide nanostructured materials produced by sol-gel technology based on the Fe(NO ₃) ₃ ·9H ₂ O/C ₂ H ₅ OH/CH ₃ CH ₂ O system. <i>Materials Chemistry and Physics</i> , 2011, 130, 548-560.	4.0	15
47	Three dimensional modelling of fibrous materials and experimental validation. <i>Materialwissenschaft Und Werkstofftechnik</i> , 2011, 42, 370-374.	0.9	22
48	Finite-sample comparison of robust estimators for nonlinear regression using Monte Carlo simulation: Part I. Univariate response models. <i>Computers and Chemical Engineering</i> , 2011, 35, 530-544.	3.8	3
49	Sol-gel synthesis of iron(III) oxyhydroxide nanostructured monoliths using Fe(NO ₃) ₃ ·9H ₂ O/CH ₃ CH ₂ OH/NH ₄ OH ternary system. <i>Journal of Physics and Chemistry of Solids</i> , 2011, 72, 678-684.	4.0	14
50	Coding a Simulation Model of the 3D Structure of Paper. <i>Lecture Notes in Computer Science</i> , 2010, , 299-310.	1.3	7
51	Adaptive Collocation Methods for the Solution of Partial Differential Equations. , 2010, , 499-504.		0
52	Simulation of Membrane Separations Using a Modified Maxwell-Stefan Model. <i>Chemical Product and Process Modeling</i> , 2009, 4, .	0.9	1
53	RADIAL COMBUSTION DYNAMICS IN Fe ₂ O ₃ -Al THERMITE: VARIABILITY OF THE FLAME PROPAGATION PROFILES. , 2009, , .		1
54	Low-Temperature FTIR Spectroscopic and Theoretical Study on an Energetic Nitroimine: Dinitroammeline (DNAM). <i>Journal of Physical Chemistry A</i> , 2008, 112, 3432-3443.	2.5	9

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55	Simulation of Fe ₂ O ₃ /Al combustion: Sensitivity analysis. Chemical Engineering Science, 2007, 62, 5078-5083.	3.8	9
56	Fe ₂ O ₃ /aluminum thermite reaction intermediate and final products characterization. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2007, 465, 199-210.	5.6	110
57	Crystal and Molecular Structure of 4,6-Bis(nitroimino)-1,3,5-triazinan-2-one: Theoretical and X-ray Studies. Journal of Physical Chemistry A, 2007, 111, 150-158.	2.5	15
58	Modelling and simulation of Fe ₂ O ₃ /Aluminum thermite combustion: Experimental validation. Computer Aided Chemical Engineering, 2006, , 365-370.	0.5	15
59	Radial Combustion Propagation in Iron(III) Oxide/Aluminum Thermite Mixtures. Propellants, Explosives, Pyrotechnics, 2006, 31, 42-49.	1.6	31
60	Cyanuric acid-epichlorohydrin prepolymers. Journal of Applied Polymer Science, 2006, 99, 3684-3691.	2.6	0
61	A performance comparison of some high breakdown robust estimators for nonlinear parameter estimation. Computer Aided Chemical Engineering, 2006, , 279-284.	0.5	0
62	Thermal Behavior of Fe ₂ O ₃ /Al Thermite Mixtures in Air and Vacuum Environments. AIP Conference Proceedings, 2006, , .	0.4	0
63	Melamine/epichlorohydrin prepolymers: syntheses and characterization. Polymer, 2005, 46, 1766-1774.	3.8	18
64	Phase investigation of as-prepared iron oxide/hydroxide produced by sol-gel synthesis. Materials Letters, 2005, 59, 859-863.	2.6	50
65	Cyanuric Acid/Epichlorohydrin Energetic Prepolymers. Propellants, Explosives, Pyrotechnics, 2005, 30, 338-343.	1.6	2
66	Coarse Explosive Particles of PBX as a Dominant Factor of Detonation Instability. AIP Conference Proceedings, 2004, , .	0.4	1
67	Iron Oxide/Aluminum Fast Thermite Reaction. AIP Conference Proceedings, 2004, , .	0.4	0
68	Detonation Meso-Scale Tests for Energetic Materials. AIP Conference Proceedings, 2002, , .	0.4	4
69	New Propellant Component, Part I. Study of 4,6-Dinitroamino-1,3,5-Triazine-2(1 H)-One (DNAM). Propellants, Explosives, Pyrotechnics, 2001, 26, 273.	1.6	15
70	New Propellant Component, Part II. Study of a PSAN/DNAM/HTPB Based Formulation. Propellants, Explosives, Pyrotechnics, 2001, 26, 278.	1.6	19
71	Title is missing!. Cellulose, 2001, 8, 217-224.	4.9	42
72	Thermal decomposition of solid mixtures of 2-oxy-4,6-dinitramine-s-triazine (DNAM) and phase stabilized ammonium nitrate (PSAN). Thermochemica Acta, 2000, 364, 71-85.	2.7	15

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73	Reaction path of energetic materials using THOR code. , 1998, , .		0
74	Modeling Dissolution of Sparingly Soluble Multisized Powders. Journal of Pharmaceutical Sciences, 1997, 86, 726-732.	3.3	38
75	Moving finite elements method applied to the solution of front reaction models: causticizing reaction. Computers and Chemical Engineering, 1995, 19, 421-426.	3.8	5
76	Determination of the steady state of isothermal two-phase continuous stirred tank reactors. Chemical Engineering Science, 1994, 49, 3447-3456.	3.8	2
77	Synergetic phenomena in detonation of solid heterogeneous explosives. Control of oscillations and dissipative structures in detonation flow. , 0, , .		0
78	Tailored Silica Based Xerogels and Aerogels for Insulation in Space Environments. Advances in Science and Technology, 0, , .	0.2	15