

Josã© Af Gamelas

List of Publications by Year in descending order

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89
papers

2,334
citations

185998

28
h-index

264894

42
g-index

91
all docs

91
docs citations

91
times ranked

2774
citing authors

#	ARTICLE	IF	CITATIONS
1	Alternatives for lignocellulosic pulp delignification using polyoxometalates and oxygen: a review. <i>Green Chemistry</i> , 2007, 9, 717.	4.6	123
2	Keggin-type polyoxotungstates as catalysts in the oxidation of cyclohexane by dilute aqueous hydrogen peroxide. <i>Journal of Molecular Catalysis A</i> , 1999, 144, 461-468.	4.8	105
3	Nanostructured Bacterial Cellulose/Poly(4-styrene sulfonic acid) Composite Membranes with High Storage Modulus and Protonic Conductivity. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 7864-7875.	4.0	81
4	On the morphology of cellulose nanofibrils obtained by TEMPO-mediated oxidation and mechanical treatment. <i>Micron</i> , 2015, 72, 28-33.	1.1	72
5	The surface properties of cellulose and lignocellulosic materials assessed by inverse gas chromatography: a review. <i>Cellulose</i> , 2013, 20, 2675-2693.	2.4	70
6	Electrochemical Behaviour of First Row Transition Metal Substituted Polyoxotungstates: A Comparative Study in Acetonitrile. <i>European Journal of Inorganic Chemistry</i> , 2004, 2004, 619-628.	1.0	66
7	Synthesis, properties and photochromism of novel charge transfer compounds with Keggin anions and protonated 2,2'-biquinoline. <i>Polyhedron</i> , 2002, 21, 2537-2545.	1.0	64
8	Oxygen bleaching of kraft pulp with polyoxometalates and laccase applying a novel multi-stage process. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2005, 33, 57-64.	1.8	64
9	Composites of nanofibrillated cellulose with clay minerals: A review. <i>Advances in Colloid and Interface Science</i> , 2019, 272, 101994.	7.0	61
10	Influence of TEMPO-oxidised cellulose nanofibrils on the properties of filler-containing papers. <i>Cellulose</i> , 2017, 24, 349-362.	2.4	49
11	An insight into the surface properties of calcined kaolinitic clays: The grinding effect. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2014, 455, 49-57.	2.3	45
12	Polyoxometalate/laccase-mediated oxidative polymerization of catechol for textile dyeing. <i>Applied Microbiology and Biotechnology</i> , 2011, 89, 981-987.	1.7	44
13	Eggshell waste to produce building lime: calcium oxide reactivity, industrial, environmental and economic implications. <i>Materials and Structures/Materiaux Et Constructions</i> , 2018, 51, 1.	1.3	44
14	Characterization of Bone and Bone-Based Graft Materials Using FTIR Spectroscopy. , 0, , .		42
15	A novel approach for the oxidative catalysis employing polyoxometalate/laccase system: application to the oxygen bleaching of kraft pulp. <i>Catalysis Communications</i> , 2004, 5, 485-489.	1.6	40
16	Tuning rheology and aggregation behaviour of TEMPO-oxidised cellulose nanofibrils aqueous suspensions by addition of different acids. <i>Carbohydrate Polymers</i> , 2020, 237, 116109.	5.1	39
17	Polymorphism in tetra-butylammonium salts of Keggin-type polyoxotungstates. <i>Inorganica Chimica Acta</i> , 2003, 342, 16-22.	1.2	36
18	Sandwich-type tungstophosphates in the catalytic oxidation of cycloalkanes with hydrogen peroxide. <i>Journal of Molecular Catalysis A</i> , 2007, 262, 41-47.	4.8	35

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19	Xylan and xylan derivativesâ€™ Their performance in bio-based films and effect of glycerol addition. <i>Industrial Crops and Products</i> , 2016, 94, 682-689.	2.5	34
20	Determination of 5-hydroxymethylfurfural in honey, using headspace-solid-phase microextraction coupled with a polyoxometalate-coated piezoelectric quartz crystal. <i>Food Chemistry</i> , 2017, 220, 420-426.	4.2	34
21	Enzymatic nanocellulose in papermaking â€™ The key role as filler flocculant and strengthening agent. <i>Carbohydrate Polymers</i> , 2019, 224, 115200.	5.1	34
22	A new formaldehyde optical sensor: Detecting milk adulteration. <i>Food Chemistry</i> , 2020, 318, 126461.	4.2	34
23	Structural Studies of Keggin-Type Polyoxotungstates by Extended X-ray Absorption Fine Structure Spectroscopy. <i>European Journal of Inorganic Chemistry</i> , 2007, 2007, 1027-1038.	1.0	31
24	Functionalized xylans in the production of xylan-coated paper laminates. <i>Reactive and Functional Polymers</i> , 2017, 117, 89-96.	2.0	31
25	Evaluation of Silica-Coated PCC as New Modified Filler for Papermaking. <i>Industrial & Engineering Chemistry Research</i> , 2013, 52, 5095-5099.	1.8	30
26	Modification of precipitated calcium carbonate with cellulose esters and use as filler in papermaking. <i>Chemical Engineering Research and Design</i> , 2014, 92, 2425-2430.	2.7	30
27	Recycling Waste Seashells to Produce Calcitic Lime: Characterization and Wet Slaking Reactivity. <i>Waste and Biomass Valorization</i> , 2019, 10, 2397-2414.	1.8	30
28	Carboxymethylated cellulose nanofibrils in papermaking: influence on filler retention and paper properties. <i>Cellulose</i> , 2019, 26, 3489-3502.	2.4	29
29	Novel charge transfer supramolecular assemblies with Keggin anions and 2-amino-5-nitropyridine. <i>Dalton Transactions</i> , 2006, , 1197-1203.	1.6	28
30	New polyoxometalateâ€™laccase integrated system for kraft pulp delignification. <i>Biochemical Engineering Journal</i> , 2007, 33, 141-147.	1.8	28
31	New polyoxometalate-functionalized cellulosic fibre/silica hybrids for environmental applications. <i>RSC Advances</i> , 2012, 2, 831-839.	1.7	27
32	Oxidation of cycloalkanes with hydrogen peroxide in the presence of Keggin-type polyoxotungstates. <i>Catalysis Today</i> , 2004, 91-92, 211-214.	2.2	26
33	Environmentally friendly cellulose-based polyelectrolytes in wastewater treatment. <i>Water Science and Technology</i> , 2017, 76, 1490-1499.	1.2	26
34	Tannin-based Coagulants from Laboratory to Pilot Plant Scales for Coloured Wastewater Treatment. <i>BioResources</i> , 2018, 13, 2727-2747.	0.5	26
35	Transition metal substituted polyoxometalates supported on amine-functionalized silica. <i>Transition Metal Chemistry</i> , 2007, 32, 1061-1067.	0.7	25
36	Sequential decolourization of reactive textile dyes by laccase mediator system. <i>Journal of Chemical Technology and Biotechnology</i> , 2009, 84, 442-446.	1.6	25

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37	Application of FT-IR-ATR Spectroscopy to Evaluate the Penetration of Surface Sizing Agents into the Paper Structure. <i>Industrial & Engineering Chemistry Research</i> , 2009, 48, 3867-3872.	1.8	25
38	New modified filler obtained by silica formed by sol-gel method on calcium carbonate. <i>Journal of Sol-Gel Science and Technology</i> , 2011, 59, 25-31.	1.1	25
39	Up-scaling of tannin-based coagulants for wastewater treatment: performance in a water treatment plant. <i>Environmental Science and Pollution Research</i> , 2020, 27, 1202-1213.	2.7	25
40	Flocculation of silica nanoparticles by natural, wood-based polyelectrolytes. <i>Separation and Purification Technology</i> , 2020, 231, 115888.	3.9	25
41	Increase of the filler content in papermaking by using a silica-coated PCC filler. <i>Nordic Pulp and Paper Research Journal</i> , 2014, 29, 240-245.	0.3	25
42	Transition metal substituted polyoxotungstates for the oxygen delignification of kraft pulp. <i>Applied Catalysis A: General</i> , 2005, 295, 134-141.	2.2	24
43	A New Approach for the Modification of Paper Surface Properties Using Polyoxometalates. <i>Materials</i> , 2010, 3, 201-215.	1.3	24
44	Cellulose micro and nanofibrils as coating agent for improved printability in office papers. <i>Cellulose</i> , 2020, 27, 6001-6010.	2.4	24
45	Evaluation of the papermaking potential of <i>Ailanthus altissima</i> . <i>Industrial Crops and Products</i> , 2013, 42, 538-542.	2.5	23
46	Evaluation of Anionic and Cationic Pulp-Based Flocculants With Diverse Lignin Contents for Application in Effluent Treatment From the Textile Industry: Flocculation Monitoring. <i>Frontiers in Chemistry</i> , 2020, 8, 5.	1.8	23
47	Catalytic oxidation of formaldehyde by ruthenium multisubstituted tungstosilicic polyoxometalate supported on cellulose/silica hybrid. <i>Applied Catalysis A: General</i> , 2016, 509, 8-16.	2.2	22
48	Spent Brewery Grains for Improvement of Thermal Insulation of Ceramic Bricks. <i>Journal of Materials in Civil Engineering</i> , 2013, 25, 1638-1646.	1.3	21
49	Oxidation of phenols employing polyoxometalates as biomimetic models of the activity of phenoxidase enzymes. <i>New Journal of Chemistry</i> , 2007, 31, 1461.	1.4	20
50	Synthesis and characterisation of novel ruthenium multi-substituted polyoxometalates: $[2-\text{SiW}_9\text{O}_{37}\text{Ru}_4(\text{H}_2\text{O})_3\text{Cl}_3]^{7-}$. <i>Polyhedron</i> , 2010, 29, 3066-3073.	1.0	20
51	Studies on the redox turnover of polyoxometalates using potentiometric chemical sensors. <i>New Journal of Chemistry</i> , 2012, 36, 1036.	1.4	20
52	Delignification of eucalypt kraft pulp with manganese-substituted polyoxometalate assisted by fungal versatile peroxidase. <i>Bioresource Technology</i> , 2010, 101, 5935-5940.	4.8	19
53	Surface properties of distinct nanofibrillated celluloses assessed by inverse gas chromatography. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2015, 469, 36-41.	2.3	19
54	Catalytic homogeneous oxidation of monoterpenes and cyclooctene with hydrogen peroxide in the presence of sandwich-type tungstophosphates $[\text{M}_4(\text{H}_2\text{O})_2(\text{PW}_9\text{O}_{34})_2]^{n-}$, M = Coll, MnII and FeIII. <i>Journal of Molecular Catalysis A</i> , 2017, 426, 593-599.	4.8	18

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55	Influence of physical-chemical interactions on the thermal stability and surface properties of poly(vinyl chloride)-b-poly(hydroxypropyl acrylate)-b-poly(vinyl chloride) block copolymers. <i>European Polymer Journal</i> , 2009, 45, 3389-3398.	2.6	17
56	Improving Paper Mechanical Properties Using Silica-modified Ground Calcium Carbonate as Filler. <i>BioResources</i> , 2015, 10, .	0.5	17
57	Engineering microfluidic papers: determination of fibre source and paper sheet properties and their influence on capillary-driven fluid flow. <i>Cellulose</i> , 2017, 24, 295-309.	2.4	17
58	Unusual electrochemical reduction of copper(II) to copper(I) in polyoxotungstates. <i>Electrochemistry Communications</i> , 2003, 5, 378-382.	2.3	16
59	Composite Films Based on Nanocellulose and Nanoclay Minerals as High Strength Materials with Gas Barrier Capabilities: Key Points and Challenges. <i>BioResources</i> , 2015, 10, 6310-6313.	0.5	16
60	Surface properties of carbonated and non-carbonated hydroxyapatites obtained after bone calcination at different temperatures. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2015, 478, 62-70.	2.3	16
61	A comprehensive study on nanocelluloses in papermaking: the influence of common additives on filler retention and paper strength. <i>Cellulose</i> , 2020, 27, 5297-5309.	2.4	16
62	Production of nanocellulose gels and films from invasive tree species. <i>International Journal of Biological Macromolecules</i> , 2021, 188, 1003-1011.	3.6	16
63	Multisensor system for determination of polyoxometalates containing vanadium at its different oxidation states. <i>Talanta</i> , 2007, 72, 497-505.	2.9	15
64	Improving Colloidal Stability of Sepiolite Suspensions: Effect of the Mechanical Disperser and Chemical Dispersant. <i>Minerals (Basel, Switzerland)</i> , 2020, 10, 779.	0.8	15
65	Unique Combination of Surface Energy and Lewis Acid-Base Characteristics of Superhydrophobic Cellulose Fibers. <i>Langmuir</i> , 2017, 33, 927-935.	1.6	14
66	Cationization of <i>Eucalyptus</i> wood waste pulps with diverse lignin contents for potential application in colored wastewater treatment. <i>RSC Advances</i> , 2019, 9, 34814-34826.	1.7	13
67	Interactions of ink colourants with chemically modified paper surfaces concerning inkjet print improvement. <i>Materials Chemistry and Physics</i> , 2013, 139, 877-884.	2.0	10
68	POLYOXOMETALATE-CATALYZED OXYGEN DELIGNIFICATION PROCESS: KINETIC STUDIES, DELIGNIFICATION SEQUENCES AND REUSE OF HPA-5-MnII/AQUEOUS SOLUTION. <i>Chemical Engineering Communications</i> , 2009, 196, 801-811.	1.5	9
69	Surface properties of calcium carbonate modified with silica by sol-gel method. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2016, 497, 1-7.	2.3	9
70	Quantifying acetaldehyde in cider using a Mn(III)-substituted polyoxotungstate coated acoustic wave sensor. <i>Sensors and Actuators B: Chemical</i> , 2018, 255, 2608-2613.	4.0	9
71	Precipitated calcium carbonate modified by the layer-by-layer deposition method-Its potential as papermaking filler. <i>Chemical Engineering Research and Design</i> , 2015, 104, 807-813.	2.7	8
72	Characterization of Two Cactus Formulation-Based Flocculants and Investigation on Their Flocculating Ability for Cationic and Anionic Dyes Removal. <i>Polymers</i> , 2020, 12, 1964.	2.0	8

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73	Stabilization of Palygorskite Aqueous Suspensions Using Bio-Based and Synthetic Polyelectrolytes. <i>Polymers</i> , 2021, 13, 129.	2.0	8
74	Composite Films of Nanofibrillated Cellulose with Sepiolite: Effect of Preparation Strategy. <i>Coatings</i> , 2022, 12, 303.	1.2	8
75	Surface properties of xylan and xylan derivatives measured by inverse gas chromatography. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2016, 506, 600-606.	2.3	7
76	A more eco-friendly synthesis of flocculants to treat wastewaters using health-friendly solvents. <i>Colloid and Polymer Science</i> , 2017, 295, 2123-2131.	1.0	7
77	Comparison of Surface Properties of Sepiolite and Palygorskite: Surface Energy and Nanoroughness. <i>Nanomaterials</i> , 2021, 11, 1579.	1.9	7
78	High-performance delignification of invasive tree species wood with ionic liquid and deep eutectic solvent for the production of cellulose-based polyelectrolytes. <i>RSC Advances</i> , 2022, 12, 3979-3989.	1.7	7
79	Pre-treatment of industrial olive oil mill effluent using low dosage health-friendly cationic polyelectrolytes. <i>Journal of Environmental Chemical Engineering</i> , 2017, 5, 6053-6060.	3.3	6
80	Anionic Polyelectrolytes Synthesized in an Aromatic-Free-Oils Process for Application as Flocculants in Dairy-Industry-Effluent Treatment. <i>Industrial & Engineering Chemistry Research</i> , 2018, 57, 16884-16896.	1.8	5
81	Surface Energy and Lewis Acid-base Characteristics of Lignocellulosic Fibers upon Modification by Chemical Vapor Deposition of Trichloromethylsilane: An Inverse Gas Chromatography Study. <i>Journal of Wood Chemistry and Technology</i> , 2018, 38, 264-275.	0.9	5
82	Valorisation of invasive plant species in the production of polyelectrolytes. <i>Industrial Crops and Products</i> , 2021, 167, 113476.	2.5	5
83	Inverse gas chromatography and XPS of extracted kraft pulps. <i>Holzforschung</i> , 2013, 67, 273-276.	0.9	4
84	Purification of pulp mill condensates by an adsorptive process on activated carbon. <i>Holzforschung</i> , 2019, 73, 589-597.	0.9	3
85	Evaluation of Anionic Eco-Friendly Flocculants Prepared from Eucalyptus Pulps with Diverse Lignin Contents for Application in Effluent Treatment. <i>Polymers</i> , 2021, 13, 25.	2.0	3
86	Exploring the potential of cuttlebone waste to produce building lime. <i>Materiales De Construccion</i> , 2020, 70, 225.	0.2	3
87	Papermaking trials in a pilot paper machine with a new silica coated PCC filler. <i>Nordic Pulp and Paper Research Journal</i> , 2016, 31, 341-346.	0.3	2
88	Properties of extracted Eucalyptus globulus kraft pulps. <i>Tappi Journal</i> , 2012, 11, 47-55.	0.2	2
89	Surface characterization of polysaccharide scaffolds by inverse gas chromatography regarding application in tissue engineering. <i>Surface and Interface Analysis</i> , 2019, 51, 1070-1077.	0.8	1