AgustÃ- Fortuny

List of Publications by Year
in descending order

105 papers	4,048 citations	87888 38 h-index	128289 60 g-index
105 all docs	105 docs citations	105 times ranked	3789 citing authors

#	Article	IF	Citations
1	Towards advanced aqueous dye removal processes: A short review on the versatile role of activated carbon. Journal of Environmental Management, 2012, 102, 148-164.	7.8	387
2	Carbon materials and catalytic wet air oxidation of organic pollutants in wastewater. Topics in Catalysis, 2005, 33, 3-50.	2.8	160
3	Wet air oxidation of phenol using active carbon as catalyst. Applied Catalysis B: Environmental, 1998, 19, 165-173.	20.2	159
4	Modified activated carbons for catalytic wet air oxidation of phenol. Carbon, 2005, 43, 2134-2145.	10.3	128
5	Water pollution abatement by catalytic wet air oxidation in a trickle bed reactor. Catalysis Today, 1999, 53, 107-114.	4.4	119
6	Catalytic wet air oxidation of substituted phenols using activated carbon as catalyst. Applied Catalysis B: Environmental, 2005, 58, 105-114.	20.2	108
7	Biodiesel production from sewage sludge lipids catalysed by BrÃ¸nsted acidic ionic liquids. Applied Catalysis B: Environmental, 2016, 181, 738-746.	20.2	93
8	Sewage sludge based catalysts for catalytic wet air oxidation of phenol: Preparation, characterisation and catalytic performance. Applied Catalysis B: Environmental, 2011, 101, 306-316.	20.2	88
9	Effective Anaerobic Decolorization of Azo Dye Acid Orange 7 in Continuous Upflow Packed-Bed Reactor Using Biological Activated Carbon System. Industrial & Engineering Chemistry Research, 2007, 46, 6788-6792.	3.7	87
10	Direct liquidâ€“liquid extraction of lipid from municipal sewage sludge for biodiesel production. Fuel Processing Technology, 2014, 128, 331-338.	7.2	85
11	Bimetallic catalysts for continuous catalytic wet air oxidation of phenol. Journal of Hazardous Materials, 1999, 64, 181-193.	12.4	84
12	Catalytic removal of phenol from aqueous phase using oxygen or air as oxidant. Catalysis Today, 1995, 24, 79-83.	4.4	81
13	Characterisation of copper catalysts and activity for the oxidation of phenol aqueous solutions. Applied Catalysis B: Environmental, 1998, 16, 53-67.	20.2	77
14	Kinetic modelling of catalytic wet air oxidation of phenol by simulated annealing. Applied Catalysis B: Environmental, 2001, 33, 175-190.	20.2	74
15	Zero-valent iron supported on nitrogen-containing activated carbon for catalytic wet peroxide oxidation of phenol. Applied Catalysis B: Environmental, 2014, 154-155, 329-338.	20.2	74
16	Studies on the extraction of Co(II) and Ni(II) from aqueous chloride solutions using Primene JMT-Cyanex272 ionic liquid extractant. Hydrometallurgy, 2012, 125-126, 24-28.	4.3	66
17	Cu(II) extraction using quaternary ammonium and quaternary phosphonium based ionic liquid. Hydrometallurgy, 2014, 141, 89-96.	4.3	66
18	Use of methyltrioctyl/decylammonium bis 2,4,4-(trimethylpentyl)phosphinate ionic liquid (ALiCY IL) on the boron extraction in chloride media. Separation and Purification Technology, 2012, 97, 137-141.	7.9	63

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19	Evaluation of Different Sludges from WWTP as a Potential Source for Biodiesel Production. Procedia Engineering, 2012, 42, 634-643.	1.2	62
20	Elimination of phenol and aromatic compounds by zero valent iron and EDTA at low temperature and atmospheric pressure. Chemosphere, 2007, 68, 338-344.	8.2	59
21	Catalytic wet air oxidation of substituted phenols: Temperature and pressure effect on the pollutant removal, the catalyst preservation and the biodegradability enhancement. Chemical Engineering Journal, 2007, 132, 105-115.	12.7	54
22	Liquidâ€Liquid Extraction of Ir, Ru, and Rh from Chloride Solutions and Their Separation Using Different Commercially Available Solvent Extraction Reagents. Separation Science and Technology, 2005, 40, 1927-1946.	2.5	52
23	Effects of pre-treatments on the lipid extraction and biodiesel production from municipal WWTP sludge. Fuel, 2015, 141, 250-257.	6.4	52
24	Aqueous phase catalytic oxidation of phenol in a trickle bed reactor: effect of the pH. Water Research, 1999, 33, 1005-1013.	11.3	50
25	Recovery of germanium from leach solutions of fly ash using solvent extraction with various extractants. Hydrometallurgy, 2018, 175, 164-169.	4.3	50
26	Catalytic wet air oxidation of phenol using active carbon: performance of discontinuous and continuous reactors. Journal of Chemical Technology and Biotechnology, 2001, 76, 743-751.	3.2	49
27	Immobilisation of horseradish peroxidase on EupergitÂ®C for the enzymatic elimination of phenol. Journal of Hazardous Materials, 2010, 177, 990-1000.	12.4	49
28	Three-phase reactors for environmental remediation: catalytic wet oxidation of phenol using active carbon. Catalysis Today, 1999, 48, 323-328.	4.4	48
29	Studies on the Selective Separation of Ir(IV), Ru(III) and Rh(III) from Chloride Solutions using Alamine 336 in Kerosene. Solvent Extraction and Ion Exchange, 2007, 25, 65-77.	2.0	48
30	Sewage sludge based carbons for catalytic wet air oxidation of phenolic compounds in batch and trickle bed reactors. Applied Catalysis B: Environmental, 2011, 110, 81-89.	20.2	48
31	Hydrolytic enzymes in activated sludge: Extraction of protease and lipase by stirring and ultrasonication. Ultrasonics Sonochemistry, 2010, 17, 923-931.	8.2	47
32	Tailored activated carbons as catalysts in biodecolourisation of textile azo dyes. Applied Catalysis B: Environmental, 2010, 94, 179-185.	20.2	46
33	Neodymium recovery from NdFeB magnet wastes using Primene 81RÂ·Cyanex 572 IL by solvent extraction. Journal of Environmental Management, 2018, 222, 359-367.	7.8	46
34	Integrated catalytic wet air oxidation and aerobic biological treatment in a municipal WWTP of a high-strength o-cresol wastewater. Chemosphere, 2007, 66, 2096-2105.	8.2	45
35	Extraction and permeation studies of Cd(II) in acidic and neutral chloride media using Cyanex 923 on supported liquid membrane. Hydrometallurgy, 2009, 96, 81-87.	4.3	45
36	Nonlinear kinetic parameter estimation using simulated annealing. Computers and Chemical Engineering, 2002, 26, 1725-1733.	3.8	44

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37	Improved rare earth elements recovery from fluorescent lamp wastes applying supported liquid membranes to the leaching solutions. Separation and Purification Technology, 2019, 224, 332-339.	7.9	42
38	Effect of activated carbon surface chemistry on the activity of ZVI/AC catalysts for Fenton-like oxidation of phenol. Catalysis Today, 2015, 240, 73-79.	4.4	40
39	Rare earths separation from fluorescent lamp wastes using ionic liquids as extractant agents. Waste Management, 2018, 82, 241-248.	7.4	40
40	Supported Cu(II) polymer catalysts for aqueous phenol oxidation. Journal of Hazardous Materials, 2009, 163, 809-815.	12.4	39
41	Transport of Zn(II), Fe(II), Fe(III) across polymer inclusion membranes (PIM) and flat sheet supported liquid membranes (SLM) containing phosphonium ionic liquids as metal ion carriers. Separation Science and Technology, 2016, 51, 2639-2648.	2.5	39
42	Efficient extraction of lipids from primary sewage sludge using ionic liquids for biodiesel production. Separation and Purification Technology, 2015, 153, 118-125.	7.9	38
43	Catalytic wet air oxidation of phenol over active carbon catalyst. Applied Catalysis B: Environmental, 2006, 67, 12-23.	20.2	37
44	Characterization and performance of carbonaceous materials obtained from exhausted sludges for the anaerobic biodecolorization of the azo dye Acid Orange II. Journal of Hazardous Materials, 2014, 267, 21-30.	12.4	37
45	Novel bioreactor design for decolourisation of azo dye effluents. Chemical Engineering Journal, 2008, 143, 293-298.	12.7	36
46	Fenton coupled with nanofiltration for elimination of Bisphenol A. Desalination, 2014, 345, 77-84.	8.2	35
47	Enhanced Degradation of Phenol by a Fenton-Like System (Fe/EDTA/H2O2) at Circumneutral pH. Catalysts, 2019, 9, 474.	3.5	34
48	Chemical Wet Oxidation for the Abatement of Refractory Non-Biodegradable Organic Wastewater Pollutants. Chemical Engineering Research and Design, 2005, 83, 371-380.	5.6	33
49	Neodymium Recovery by Chitosan/Iron(III) Hydroxide [ChiFer(III)] Sorbent Material: Batch and Column Systems. Polymers, 2018, 10, 204.	4.5	32
50	Extraction and purification of hydrolytic enzymes from activated sludge. Resources, Conservation and Recycling, 2012, 59, 9-13.	10.8	30
51	Third Phase Formation in the Solvent Extraction System Ir(IV)â€”Cyanex 923. Solvent Extraction and Ion Exchange, 2005, 23, 545-559.	2.0	29
52	Phenol wastewater remediation: advanced oxidation processes coupled to a biological treatment. Water Science and Technology, 2007, 55, 221-227.	2.5	29
53	Synthesis of polymer-supported copper complexes and their evaluation in catalytic phenol oxidation. Catalysis Today, 2010, 157, 66-70.	4.4	28
54	Biodegradability enhancement of phenolic compounds by Hydrogen Peroxide Promoted Catalytic Wet Air Oxidation. Catalysis Today, 2007, 124, 191-197.	4.4	27

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55	Recovery and partitioning of Ir(IV) and Ru(III) from chloride solutions by solvent extraction using Cyanex 923/kerosene. Hydrometallurgy, 2006, 82, 40-47.	4.3	25
56	Biodegradation of acid orange 7 in an anaerobicâ€“aerobic sequential treatment system. Chemical Engineering and Processing: Process Intensification, 2015, 94, 99-104.	3.6	24
57	Non-enhanced ultrafiltration of iron(III) with commercial ceramic membranes. Journal of Membrane Science, 2009, 334, 129-137.	8.2	23
58	Phenol Degradation by Heterogeneous Fenton-Like Reaction Using Fe Supported Over Activated Carbon. Procedia Engineering, 2012, 42, 1373-1377.	1.2	21
59	Recovery of iron (III) from aqueous streams by ultrafiltration. Desalination, 2008, 221, 413-418.	8.2	20
60	Permeability dependencies on the carrier concentration and membrane viscosity for Y(III) and Eu(III) transport by using liquid membranes. Separation and Purification Technology, 2020, 239, 116573.	7.9	19
61	Rare earth elements recovery from secondary wastes by solid-state chlorination and selective organic leaching. Waste Management, 2021, 122, 55-63.	7.4	19
62	Kinetics of phenol oxidation in a trickle bed reactor over active carbon catalyst. Journal of Chemical Technology and Biotechnology, 2005, 80, 677-687.	3.2	18
63	Advanced Bioreduction of Commercially Important Azo Dyes: Modeling and Correlation with Electrochemical Characteristics. Industrial & Engineering Chemistry Research, 2009, 48, 7054-7059.	3.7	17
64	Degradation of model olive mill contaminants of OMW catalysed by zero-valent iron enhanced with a chelant. Journal of Hazardous Materials, 2012, 199-200, 328-335.	12.4	17
65	Ionic liquids as a carrier for chloride reduction from brackish water using hollow fiber renewal liquid membrane. Desalination, 2014, 343, 54-59.	8.2	16
66	Comparison of Cyanex 272 and Cyanex 572 for the separation of Neodymium from a Nd/Tb/Dy mixture by pertraction. Journal of Chemical Technology and Biotechnology, 2018, 93, 2152-2159.	3.2	16
67	Mixing and hydrodynamics investigation using CFD in a square-sectioned torus reactor in batch and continuous regimes. Chemical Engineering Journal, 2008, 137, 386-395.	12.7	15
68	TiO2-sludge carbon enhanced catalytic oxidative reaction in environmental wastewaters applications. Journal of Hazardous Materials, 2015, 300, 406-414.	12.4	15
69	Catalytic wet peroxide oxidation of phenol using nanoscale zero-valent iron supported on activated carbon. Desalination and Water Treatment, 2016, 57, 5155-5164.	1.0	14
70	Mathematical modeling of cadmium(II) solvent extraction from neutral and acidic chloride media using Cyanex 923 extractant as a metal carrier. Journal of Hazardous Materials, 2010, 182, 903-911.	12.4	13
71	Heat transfer in trickle bed column with constant and modulated feed temperature: Experiments and modeling. Chemical Engineering Science, 2011, 66, 3358-3368.	3.8	13
72	Boron reduction by supported liquid membranes using ALiCY and ALiDEC ionic liquids as carriers. Chemical Engineering Research and Design, 2014, 92, 758-763.	5.6	13

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73	Synthesis of N-doped and non-doped partially oxidised graphene membranes supported over ceramic materials. Journal of Materials Science, 2016, 51, 8346-8360.	3.7	13
74	Solvent extraction modeling of Ce/Eu/Y from chloride media using D2EHPA. AICHE Journal, 2019, 65, e16627.	3.6	13
75	Effect of gas feed flow and gas composition modulation on activated carbon performance in phenol wet air oxidation. Chemical Engineering Science, 2007, 62, 7351-7358.	3.8	12
76	Mathematical modeling for facilitated transport of Ge(IV) through supported liquid membrane containing Alamine 336. Chemical Papers, 2018, 72, 955-970.	2.2	12
77	Selective separation of Germanium(IV) from simulated industrial leachates containing heavy metals by non-dispersive ionic extraction. Minerals Engineering, 2019, 137, 344-353.	4.3	12
78	Ceramic-supported graphene oxide membrane bioreactor for the anaerobic decolorization of azo dyes. Journal of Water Process Engineering, 2022, 45, 102499.	5.6	11
79	Evaluation of different strategies to produce biofuels from Nannochloropsis oculata and Chlorella vulgaris. Fuel Processing Technology, 2016, 144, 132-138.	7.2	10
80	Nitrate removal in an innovative up-flow stirred packed-bed bioreactor. Chemical Engineering and Processing: Process Intensification, 2017, 121, 57-64.	3.6	10
81	Mathematical modelling of neodymium, terbium and dysprosium solvent extraction from chloride media using methyl-tri(octyl/decyl)ammonium oleate ionic liquid as extractant. Hydrometallurgy, 2017, 173, 84-90.	4.3	9
82	Recycling of rare earths from fluorescent lamp waste by the integration of solid-state chlorination, leaching and solvent extraction processes. Separation and Purification Technology, 2021, 272, 118879.	7.9	9
83	Efficient elimination of tyrosol in a zero valent iron-EDTA system at mild conditions. Chemical Engineering Journal, 2015, 260, 199-208.	12.7	8
84	Counter-current separation of cobalt(II)â€“nickel(II) from aqueous sulphate media with a mixture of Primene JMT-Versatic 10 diluted in kerosene. Separation Science and Technology, 2020, 55, 513-522.	2.5	8
85	Gas feed composition modulation in phenol CWAO over active carbon. Chemical Engineering Science, 2007, 62, 5564-5566.	3.8	7
86	Heterogenization of copper catalyst for the oxidation of phenol, a common contaminant in industrial wastewater. Environmental Progress and Sustainable Energy, 2013, 32, 269-278.	2.3	7
87	Effect of phase modifiers on boron removal by solvent extraction using 1,3 diolic compounds. Journal of Chemical Technology and Biotechnology, 2014, 89, 858-865.	3.2	7
88	Separation of cellulose from industrial paper mill wastewater dried sludge using a commercial and cheap ionic liquid. Water Science and Technology, 2019, 79, 1897-1904.	2.5	7
89	Non-dispersive selective extraction of germanium from fly ash leachates using membrane-based processes. Separation Science and Technology, 2019, 54, 2879-2894.	2.5	7
90	Removal of Zinc from Aqueous Solutions Using Lamellar Double Hydroxide Materials Impregnated with Cyanex 272: Characterization and Sorption Studies. Molecules, 2020, 25, 1263.	3.8	6

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91	New sludge-based carbonaceous materials impregnated with different metals for anaerobic azo-dye reduction. Journal of Environmental Chemical Engineering, 2015, 3, 104-112.	6.7	5
92	Experimental and modelling studies of neodymium solvent extraction from chloride media with methyl-tri(octyl/decyl)ammonium oleate ionic liquid diluted in kerosene. Hydrometallurgy, 2017, 174, 216-226.	4.3	5
93	Comparative Anaerobic Decolorization of Azo Dyes by Carbon-Based Membrane Bioreactor. Water (Switzerland), 2021, 13, 1060.	2.7	5
94	Performance of Different Catalysts on the Coprocessing of a Demineralized Catalan Lignite. Energy & Fuels, 1996, 10, 679-683.	5.1	4
95	A potential application of sludge-based catalysts for the anaerobic bio-decolorization of tartrazine dye. Environmental Technology (United Kingdom), 2015, 36, 2568-2576.	2.2	4
96	Fast Aqueous Biodegradation of Highly-Volatile Organic Compounds in a Novel Anaerobic Reaction Setup. Environments - MDPI, 2018, 5, 115.	3.3	4
97	Mathematical modeling on non-dispersive extraction of germanium from aqueous solutions using Aliquat 336. Water Science and Technology, 2018, 78, 2489-2499.	2.5	4
98	Flexible semi-amorphous carbon nitride films with outstanding electrochemical stability derived from soluble polymeric precursors. Journal of Materials Science, 2022, 57, 4970-4989.	3.7	4
99	Compact Carbon-Based Membrane Reactors for the Intensified Anaerobic Decolorization of Dye Effluents. Membranes, 2022, 12, 174.	3.0	3
100	Performance of Sludge Based Activated Carbons in Catalytic Wet Air Oxidation of Phenol. International Journal of Chemical Reactor Engineering, 2010, 8, .	1.1	2
101	Extraction of enzymes from activated sludge. WIT Transactions on Ecology and the Environment, 2008, , .	0.0	2
102	Influence of type of vacuum residue on the catalytic coprocessing of a demineralized Catalan lignite. Fuel, 1996, 75, 1327-1330.	6.4	1
103	Influence des catalyseurs hÃ©tÃ©rogÃ¨nes sur le coprocessing d'un lignite du BerguedÃ avec un rÃ©sidu de distillation sous vide. Oil & Gas Science & Technology, 1997, 52, 61-71.	0.2	1
104	Optimisation of a torus reactor geometry using CFD. Computer Aided Chemical Engineering, 2009, 26, 701-705.	0.5	0
105	Performance of Trickle Bed Reactor and Active Carbon in the Liquid Phase Oxidation of Phenol. International Journal of Chemical Reactor Engineering, 2010, 8, .	1.1	0