Christophe Bengoa

List of Publications by Year
in descending order

85 papers	2,822 citations	136950 32 h-index	182427 51 g-index
85 all docs	85 docs citations	85 times ranked	3389 citing authors

#	Article	IF	Citations
1	Extraction of cellulose from corn stover using designed ionic liquids with improved reusing capabilities. Chemical Engineering Research and Design, 2021, 147, 181-191.	5.6	28
2	Data-driven techniques for fault detection in anaerobic digestion process. Chemical Engineering Research and Design, 2021, 146, 905-915.	5.6	53
3	ATR-FTIR Spectroscopy Combined with Multivariate Analysis Successfully Discriminates Raw Doughs and Baked 3D-Printed Snacks Enriched with Edible Insect Powder. Foods, 2021, 10, 1806.	4.3	6
4	Moving municipal WWTP towards circular economy: Cellulose recovery from primary sludge with ionic liquid. Resources, Conservation and Recycling, 2020, 154, 104626.	10.8	19
5	Valorization of Cellulose Recovered from WWTP Sludge to Added Value Levulinic Acid with a BrÃ¸nsted Acidic Ionic Liquid. Catalysts, 2020, 10, 1004.	3.5	16
6	Fault detection and diagnosis in water resource recovery facilities using incremental PCA. Water Science and Technology, 2020, 82, 2711-2724.	2.5	12
7	Robust Data-Driven Soft Sensors for Online Monitoring of Volatile Fatty Acids in Anaerobic Digestion Processes. Processes, 2020, 8, 67.	2.8	30
8	Data-driven fault detection methods for detecting small-magnitude faults in anaerobic digestion process. Water Science and Technology, 2020, 81, 1740-1748.	2.5	12
9	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
10	Recovery and characterisation of cellulose from industrial paper mill sludge using tetrakis and imidazolium based ionic liquids. Industrial Crops and Products, 2019, 139, 111556.	5.2	8
11	Enhanced Degradation of Phenol by a Fenton-Like System (Fe/EDTA/H2O2) at Circumneutral pH. Catalysts, 2019, 9, 474.	3.5	34
12	Zero-valent iron supported on nitrogen-doped carbon xerogel as catalysts for the oxidation of phenol by fenton-like system. Environmental Technology (United Kingdom), 2018, 39, 2951-2958.	2.2	19
13	Fast Aqueous Biodegradation of Highly-Volatile Organic Compounds in a Novel Anaerobic Reaction Setup. Environments - MDPI, 2018, 5, 115.	3.3	4
14	Nitrate removal in an innovative up-flow stirred packed-bed bioreactor. Chemical Engineering and Processing: Process Intensification, 2017, 121, 57-64.	3.6	10
15	How the contents of a bachelorâ€™s degree final project of engineering evolve towards innovative scientific knowledge: Keys to success. Journal of Technology and Science Education, 2017, 7, 241.	1.2	1
16	Energy and Nutrients Recovery from Lipid-Extracted Nannochloropsis via Anaerobic Digestion and Hydrothermal Liquefaction. ACS Sustainable Chemistry and Engineering, 2016, 4, 3133-3139.	6.7	19
17	Scale-up and economic analysis of biodiesel production from municipal primary sewage sludge. Bioresource Technology, 2016, 214, 122-131.	9.6	63
18	Hydrothermal liquefaction of Nannochloropsis oceanica in different solvents. Bioresource Technology, 2016, 214, 404-410.	9.6	52

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19	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
20	Effect of pre-treatments on the production of biofuels from Phaeodactylum tricornutum. Journal of Environmental Management, 2016, 177, 240-246.	7.8	17
21	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
22	A novel pre-treatment for the methane production from microalgae by using N-methylmorpholine-N-oxide (NMMO). Bioresource Technology, 2016, 201, 370-373.	9.6	11
23	Evaluation of different strategies to produce biofuels from Nannochloropsis oculata and Chlorella vulgaris. Fuel Processing Technology, 2016, 144, 132-138.	7.2	10
24	Biodiesel production from sewage sludge lipids catalysed by BrÃ¸nsted acidic ionic liquids. Applied Catalysis B: Environmental, 2016, 181, 738-746.	20.2	93
25	Anaerobic Digestion of Microalgae: The Benefits of Digesting Microalgae Waste. Current Biochemical Engineering, 2016, 3, 210-222.	1.3	3
26	Microalgae cultivation in urban wastewater: Nutrient removal and biomass production for biodiesel and methane. Algal Research, 2015, 10, 232-239.	4.6	160
27	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
28	A novel recovery process for lipids from microalgÃ¦ for biodiesel production using a hydrated phosphonium ionic liquid. Green Chemistry, 2015, 17, 2813-2824.	9.0	81
29	TiO2-sludge carbon enhanced catalytic oxidative reaction in environmental wastewaters applications. Journal of Hazardous Materials, 2015, 300, 406-414.	12.4	15
30	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
31	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
32	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
33	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
34	Biogas production from sewage sludge and microalgae co-digestion under mesophilic and thermophilic conditions. Renewable Energy, 2015, 75, 374-380.	8.9	88
35	Effects of pre-treatments on the lipid extraction and biodiesel production from municipal WWTP sludge. Fuel, 2015, 141, 250-257.	6.4	52
36	Efficient elimination of tyrosol in a zero valent iron-EDTA system at mild conditions. Chemical Engineering Journal, 2015, 260, 199-208.	12.7	8

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37	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
38	Fenton coupled with nanofiltration for elimination of Bisphenol A. Desalination, 2014, 345, 77-84.	8.2	35
39	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
40	Direct liquidâ€“liquid extraction of lipid from municipal sewage sludge for biodiesel production. Fuel Processing Technology, 2014, 128, 331-338.	7.2	85
41	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
42	Evaluation of Different Sludges from WWTP as a Potential Source for Biodiesel Production. Procedia Engineering, 2012, 42, 634-643.	1.2	62
43	Phenol Degradation by Heterogeneous Fenton-Like Reaction Using Fe Supported Over Activated Carbon. Procedia Engineering, 2012, 42, 1373-1377.	1.2	21
44	Fenton Coupled with Nanoflitration for Elimination of Tartrazine. Procedia Engineering, 2012, 44, 1781-1782.	1.2	0
45	Extraction and purification of hydrolytic enzymes from activated sludge. Resources, Conservation and Recycling, 2012, 59, 9-13.	10.8	30
46	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
47	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
48	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
49	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
50	Tailored activated carbons as catalysts in biodecolourisation of textile azo dyes. Applied Catalysis B: Environmental, 2010, 94, 179-185.	20.2	46
51	Immobilisation of horseradish peroxidase on EupergitÂ®C for the enzymatic elimination of phenol. Journal of Hazardous Materials, 2010, 177, 990-1000.	12.4	49
52	Hydrolytic enzymes in activated sludge: Extraction of protease and lipase by stirring and ultrasonication. Ultrasonics Sonochemistry, 2010, 17, 923-931.	8.2	47
53	Synthesis of polymer-supported copper complexes and their evaluation in catalytic phenol oxidation. Catalysis Today, 2010, 157, 66-70.	4.4	28
54	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

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55	Performance of Sludge Based Activated Carbons in Catalytic Wet Air Oxidation of Phenol. International Journal of Chemical Reactor Engineering, 2010, 8, .	1.1	2
56	Ferrous Ion Effects on the Stability and Properties of Oil-in-Water Emulsions Formulated by Membrane Emulsification. Industrial & Engineering Chemistry Research, 2010, 49, 3818-3829.	3.7	12
57	Optimisation of a torus reactor geometry using CFD. Computer Aided Chemical Engineering, 2009, 26, 701-705.	0.5	0
58	Non-enhanced ultrafiltration of iron(III) with commercial ceramic membranes. Journal of Membrane Science, 2009, 334, 129-137.	8.2	23
59	Supported Cu(II) polymer catalysts for aqueous phenol oxidation. Journal of Hazardous Materials, 2009, 163, 809-815.	12.4	39
60	Advanced Bioreduction of Commercially Important Azo Dyes: Modeling and Correlation with Electrochemical Characteristics. Industrial & Engineering Chemistry Research, 2009, 48, 7054-7059.	3.7	17
61	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
62	Recovery of iron (III) from aqueous streams by ultrafiltration. Desalination, 2008, 221, 413-418.	8.2	20
63	Novel bioreactor design for decolourisation of azo dye effluents. Chemical Engineering Journal, 2008, 143, 293-298.	12.7	36
64	Volcanic tremor and local earthquakes at Copahue volcanic complex, Southern Andes, Argentina. Journal of Volcanology and Geothermal Research, 2008, 174, 284-294.	2.1	30
65	Extraction of enzymes from activated sludge. WIT Transactions on Ecology and the Environment, 2008, , .	0.0	2
66	Phenol wastewater remediation: advanced oxidation processes coupled to a biological treatment. Water Science and Technology, 2007, 55, 221-227.	2.5	29
67	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
68	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
69	Biodegradability enhancement of phenolic compounds by Hydrogen Peroxide Promoted Catalytic Wet Air Oxidation. Catalysis Today, 2007, 124, 191-197.	4.4	27
70	Gas feed composition modulation in phenol CWAO over active carbon. Chemical Engineering Science, 2007, 62, 5564-5566.	3.8	7
71	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
72	Casein hydrolysis by immobilized enzymes in a torus reactor. Process Biochemistry, 2005, 40, 461-467.	3.7	18

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73	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
74	Carbon materials and catalytic wet air oxidation of organic pollutants in wastewater. Topics in Catalysis, 2005, 33, 3-50.	2.8	160
75	Characterization and Modeling of the Hydrodynamic Behavior in the Filter-Press-Type FM01-LC Electrochemical Cell by Direct Flow Visualization and Residence Time Distribution. Industrial & Engineering Chemistry Research, 2000, 39, 2199-2206.	3.7	40
76	Water pollution abatement by catalytic wet air oxidation in a trickle bed reactor. Catalysis Today, 1999, 53, 107-114.	4.4	119
77	Bimetallic catalysts for continuous catalytic wet air oxidation of phenol. Journal of Hazardous Materials, 1999, 64, 181-193.	12.4	84
78	Aqueous phase catalytic oxidation of phenol in a trickle bed reactor: effect of the pH. Water Research, 1999, 33, 1005-1013.	11.3	50
79	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
80	Flow visualization and modelling of a filter-press type electrochemical reactor. Journal of Applied Electrochemistry, 1997, 27, 1313-1322.	2.9	39
81	Performance of Different Catalysts on the Coprocessing of a Demineralized Catalan Lignite. Energy & Fuels, 1996, 10, 679-683.	5.1	4
82	Influence of type of vacuum residue on the catalytic coprocessing of a demineralized Catalan lignite. Fuel, 1996, 75, 1327-1330.	6.4	1
83	Coprocessing of BerguedÃ lignite with vacuum residue under increasing hydrogen pressure comparison with hydrotreating. Fuel, 1995, 74, 1704-1708.	6.4	8
84	Catalytic removal of phenol from aqueous phase using oxygen or air as oxidant. Catalysis Today, 1995, 24, 79-83.	4.4	81
85	Influence of temperature and hydrogen partial pressure on the coprocessing of two Spanish lignites with a vacuum residue. Fuel, 1992, 71, 1169-1175.	6.4	11