

# Christophe Bengoa

## List of Publications by Year in descending order

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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	Carbon materials and catalytic wet air oxidation of organic pollutants in wastewater. <i>Topics in Catalysis</i> , 2005, 33, 3-50.	2.8	160
2	Microalgae cultivation in urban wastewater: Nutrient removal and biomass production for biodiesel and methane. <i>Algal Research</i> , 2015, 10, 232-239.	4.6	160
3	Water pollution abatement by catalytic wet air oxidation in a trickle bed reactor. <i>Catalysis Today</i> , 1999, 53, 107-114.	4.4	119
4	Biodiesel production from sewage sludge lipids catalysed by Brønsted acidic ionic liquids. <i>Applied Catalysis B: Environmental</i> , 2016, 181, 738-746.	20.2	93
5	Sewage sludge based catalysts for catalytic wet air oxidation of phenol: Preparation, characterisation and catalytic performance. <i>Applied Catalysis B: Environmental</i> , 2011, 101, 306-316.	20.2	88
6	Biogas production from sewage sludge and microalgae co-digestion under mesophilic and thermophilic conditions. <i>Renewable Energy</i> , 2015, 75, 374-380.	8.9	88
7	Effective Anaerobic Decolorization of Azo Dye Acid Orange 7 in Continuous Upflow Packed-Bed Reactor Using Biological Activated Carbon System. <i>Industrial &amp; Engineering Chemistry Research</i> , 2007, 46, 6788-6792.	3.7	87
8	Direct liquid-liquid extraction of lipid from municipal sewage sludge for biodiesel production. <i>Fuel Processing Technology</i> , 2014, 128, 331-338.	7.2	85
9	Bimetallic catalysts for continuous catalytic wet air oxidation of phenol. <i>Journal of Hazardous Materials</i> , 1999, 64, 181-193.	12.4	84
10	Catalytic removal of phenol from aqueous phase using oxygen or air as oxidant. <i>Catalysis Today</i> , 1995, 24, 79-83.	4.4	81
11	A novel recovery process for lipids from microalgae for biodiesel production using a hydrated phosphonium ionic liquid. <i>Green Chemistry</i> , 2015, 17, 2813-2824.	9.0	81
12	Zero-valent iron supported on nitrogen-containing activated carbon for catalytic wet peroxide oxidation of phenol. <i>Applied Catalysis B: Environmental</i> , 2014, 154-155, 329-338.	20.2	74
13	Scale-up and economic analysis of biodiesel production from municipal primary sewage sludge. <i>Bioresource Technology</i> , 2016, 214, 122-131.	9.6	63
14	Evaluation of Different Sludges from WWTP as a Potential Source for Biodiesel Production. <i>Procedia Engineering</i> , 2012, 42, 634-643.	1.2	62
15	Elimination of phenol and aromatic compounds by zero valent iron and EDTA at low temperature and atmospheric pressure. <i>Chemosphere</i> , 2007, 68, 338-344.	8.2	59
16	Data-driven techniques for fault detection in anaerobic digestion process. <i>Chemical Engineering Research and Design</i> , 2021, 146, 905-915.	5.6	53
17	Effects of pre-treatments on the lipid extraction and biodiesel production from municipal WWTP sludge. <i>Fuel</i> , 2015, 141, 250-257.	6.4	52
18	Hydrothermal liquefaction of <i>Nannochloropsis oceanica</i> in different solvents. <i>Bioresource Technology</i> , 2016, 214, 404-410.	9.6	52

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19	Aqueous phase catalytic oxidation of phenol in a trickle bed reactor: effect of the pH. <i>Water Research</i> , 1999, 33, 1005-1013.	11.3	50
20	Immobilisation of horseradish peroxidase on Eupergit®C for the enzymatic elimination of phenol. <i>Journal of Hazardous Materials</i> , 2010, 177, 990-1000.	12.4	49
21	Sewage sludge based carbons for catalytic wet air oxidation of phenolic compounds in batch and trickle bed reactors. <i>Applied Catalysis B: Environmental</i> , 2011, 110, 81-89.	20.2	48
22	Hydrolytic enzymes in activated sludge: Extraction of protease and lipase by stirring and ultrasonication. <i>Ultrasonics Sonochemistry</i> , 2010, 17, 923-931.	8.2	47
23	Tailored activated carbons as catalysts in biodecolourisation of textile azo dyes. <i>Applied Catalysis B: Environmental</i> , 2010, 94, 179-185.	20.2	46
24	Characterization and Modeling of the Hydrodynamic Behavior in the Filter-Press-Type FM01-LC Electrochemical Cell by Direct Flow Visualization and Residence Time Distribution. <i>Industrial &amp; Engineering Chemistry Research</i> , 2000, 39, 2199-2206.	3.7	40
25	Effect of activated carbon surface chemistry on the activity of ZVI/AC catalysts for Fenton-like oxidation of phenol. <i>Catalysis Today</i> , 2015, 240, 73-79.	4.4	40
26	Flow visualization and modelling of a filter-press type electrochemical reactor. <i>Journal of Applied Electrochemistry</i> , 1997, 27, 1313-1322.	2.9	39
27	Supported Cu(II) polymer catalysts for aqueous phenol oxidation. <i>Journal of Hazardous Materials</i> , 2009, 163, 809-815.	12.4	39
28	Efficient extraction of lipids from primary sewage sludge using ionic liquids for biodiesel production. <i>Separation and Purification Technology</i> , 2015, 153, 118-125.	7.9	38
29	Characterization and performance of carbonaceous materials obtained from exhausted sludges for the anaerobic biodecolorization of the azo dye Acid Orange II. <i>Journal of Hazardous Materials</i> , 2014, 267, 21-30.	12.4	37
30	Novel bioreactor design for decolourisation of azo dye effluents. <i>Chemical Engineering Journal</i> , 2008, 143, 293-298.	12.7	36
31	Fenton coupled with nanofiltration for elimination of Bisphenol A. <i>Desalination</i> , 2014, 345, 77-84.	8.2	35
32	Enhanced Degradation of Phenol by a Fenton-Like System (Fe/EDTA/H <sub>2</sub> O <sub>2</sub> ) at Circumneutral pH. <i>Catalysts</i> , 2019, 9, 474.	3.5	34
33	Chemical Wet Oxidation for the Abatement of Refractory Non-Biodegradable Organic Wastewater Pollutants. <i>Chemical Engineering Research and Design</i> , 2005, 83, 371-380.	5.6	33
34	Volcanic tremor and local earthquakes at Copahue volcanic complex, Southern Andes, Argentina. <i>Journal of Volcanology and Geothermal Research</i> , 2008, 174, 284-294.	2.1	30
35	Extraction and purification of hydrolytic enzymes from activated sludge. <i>Resources, Conservation and Recycling</i> , 2012, 59, 9-13.	10.8	30
36	Robust Data-Driven Soft Sensors for Online Monitoring of Volatile Fatty Acids in Anaerobic Digestion Processes. <i>Processes</i> , 2020, 8, 67.	2.8	30

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37	Phenol wastewater remediation: advanced oxidation processes coupled to a biological treatment. <i>Water Science and Technology</i> , 2007, 55, 221-227.	2.5	29
38	Synthesis of polymer-supported copper complexes and their evaluation in catalytic phenol oxidation. <i>Catalysis Today</i> , 2010, 157, 66-70.	4.4	28
39	Extraction of cellulose from corn stover using designed ionic liquids with improved reusing capabilities. <i>Chemical Engineering Research and Design</i> , 2021, 147, 181-191.	5.6	28
40	Biodegradability enhancement of phenolic compounds by Hydrogen Peroxide Promoted Catalytic Wet Air Oxidation. <i>Catalysis Today</i> , 2007, 124, 191-197.	4.4	27
41	Biodegradation of acid orange 7 in an anaerobic-aerobic sequential treatment system. <i>Chemical Engineering and Processing: Process Intensification</i> , 2015, 94, 99-104.	3.6	24
42	Non-enhanced ultrafiltration of iron(III) with commercial ceramic membranes. <i>Journal of Membrane Science</i> , 2009, 334, 129-137.	8.2	23
43	Phenol Degradation by Heterogeneous Fenton-Like Reaction Using Fe Supported Over Activated Carbon. <i>Procedia Engineering</i> , 2012, 42, 1373-1377.	1.2	21
44	Recovery of iron (III) from aqueous streams by ultrafiltration. <i>Desalination</i> , 2008, 221, 413-418.	8.2	20
45	Energy and Nutrients Recovery from Lipid-Extracted <i>Nannochloropsis</i> via Anaerobic Digestion and Hydrothermal Liquefaction. <i>ACS Sustainable Chemistry and Engineering</i> , 2016, 4, 3133-3139.	6.7	19
46	Zero-valent iron supported on nitrogen-doped carbon xerogel as catalysts for the oxidation of phenol by fenton-like system. <i>Environmental Technology (United Kingdom)</i> , 2018, 39, 2951-2958.	2.2	19
47	Moving municipal WWTP towards circular economy: Cellulose recovery from primary sludge with ionic liquid. <i>Resources, Conservation and Recycling</i> , 2020, 154, 104626.	10.8	19
48	Casein hydrolysis by immobilized enzymes in a torus reactor. <i>Process Biochemistry</i> , 2005, 40, 461-467.	3.7	18
49	Advanced Bioreduction of Commercially Important Azo Dyes: Modeling and Correlation with Electrochemical Characteristics. <i>Industrial &amp; Engineering Chemistry Research</i> , 2009, 48, 7054-7059.	3.7	17
50	Degradation of model olive mill contaminants of OMW catalysed by zero-valent iron enhanced with a chelant. <i>Journal of Hazardous Materials</i> , 2012, 199-200, 328-335.	12.4	17
51	Effect of pre-treatments on the production of biofuels from <i>Phaeodactylum tricornutum</i> . <i>Journal of Environmental Management</i> , 2016, 177, 240-246.	7.8	17
52	Valorization of Cellulose Recovered from WWTP Sludge to Added Value Levulinic Acid with a Brønsted Acidic Ionic Liquid. <i>Catalysts</i> , 2020, 10, 1004.	3.5	16
53	Mixing and hydrodynamics investigation using CFD in a square-sectioned torus reactor in batch and continuous regimes. <i>Chemical Engineering Journal</i> , 2008, 137, 386-395.	12.7	15
54	TiO <sub>2</sub> -sludge carbon enhanced catalytic oxidative reaction in environmental wastewaters applications. <i>Journal of Hazardous Materials</i> , 2015, 300, 406-414.	12.4	15

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55	Catalytic wet peroxide oxidation of phenol using nanoscale zero-valent iron supported on activated carbon. <i>Desalination and Water Treatment</i> , 2016, 57, 5155-5164.	1.0	14
56	Heat transfer in trickle bed column with constant and modulated feed temperature: Experiments and modeling. <i>Chemical Engineering Science</i> , 2011, 66, 3358-3368.	3.8	13
57	Synthesis of N-doped and non-doped partially oxidised graphene membranes supported over ceramic materials. <i>Journal of Materials Science</i> , 2016, 51, 8346-8360.	3.7	13
58	Effect of gas feed flow and gas composition modulation on activated carbon performance in phenol wet air oxidation. <i>Chemical Engineering Science</i> , 2007, 62, 7351-7358.	3.8	12
59	Ferrous Ion Effects on the Stability and Properties of Oil-in-Water Emulsions Formulated by Membrane Emulsification. <i>Industrial &amp; Engineering Chemistry Research</i> , 2010, 49, 3818-3829.	3.7	12
60	Fault detection and diagnosis in water resource recovery facilities using incremental PCA. <i>Water Science and Technology</i> , 2020, 82, 2711-2724.	2.5	12
61	Data-driven fault detection methods for detecting small-magnitude faults in anaerobic digestion process. <i>Water Science and Technology</i> , 2020, 81, 1740-1748.	2.5	12
62	Influence of temperature and hydrogen partial pressure on the coprocessing of two Spanish lignites with a vacuum residue. <i>Fuel</i> , 1992, 71, 1169-1175.	6.4	11
63	A novel pre-treatment for the methane production from microalgae by using N-methylmorpholine-N-oxide (NMMO). <i>Bioresource Technology</i> , 2016, 201, 370-373.	9.6	11
64	Evaluation of different strategies to produce biofuels from <i>Nannochloropsis oculata</i> and <i>Chlorella vulgaris</i> . <i>Fuel Processing Technology</i> , 2016, 144, 132-138.	7.2	10
65	Nitrate removal in an innovative up-flow stirred packed-bed bioreactor. <i>Chemical Engineering and Processing: Process Intensification</i> , 2017, 121, 57-64.	3.6	10
66	Coprocessing of Berguedà lignite with vacuum residue under increasing hydrogen pressure comparison with hydrotreating. <i>Fuel</i> , 1995, 74, 1704-1708.	6.4	8
67	Efficient elimination of tyrosol in a zero valent iron-EDTA system at mild conditions. <i>Chemical Engineering Journal</i> , 2015, 260, 199-208.	12.7	8
68	Recovery and characterisation of cellulose from industrial paper mill sludge using tetrakis and imidazolium based ionic liquids. <i>Industrial Crops and Products</i> , 2019, 139, 111556.	5.2	8
69	Gas feed composition modulation in phenol CWAO over active carbon. <i>Chemical Engineering Science</i> , 2007, 62, 5564-5566.	3.8	7
70	Heterogenization of copper catalyst for the oxidation of phenol, a common contaminant in industrial wastewater. <i>Environmental Progress and Sustainable Energy</i> , 2013, 32, 269-278.	2.3	7
71	Separation of cellulose from industrial paper mill wastewater dried sludge using a commercial and cheap ionic liquid. <i>Water Science and Technology</i> , 2019, 79, 1897-1904.	2.5	7
72	ATR-FTIR Spectroscopy Combined with Multivariate Analysis Successfully Discriminates Raw Doughs and Baked 3D-Printed Snacks Enriched with Edible Insect Powder. <i>Foods</i> , 2021, 10, 1806.	4.3	6

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73	New sludge-based carbonaceous materials impregnated with different metals for anaerobic azo-dye reduction. <i>Journal of Environmental Chemical Engineering</i> , 2015, 3, 104-112.	6.7	5
74	Performance of Different Catalysts on the Coprocessing of a Demineralized Catalan Lignite. <i>Energy &amp; Fuels</i> , 1996, 10, 679-683.	5.1	4
75	A potential application of sludge-based catalysts for the anaerobic bio-decolorization of tartrazine dye. <i>Environmental Technology (United Kingdom)</i> , 2015, 36, 2568-2576.	2.2	4
76	Fast Aqueous Biodegradation of Highly-Volatile Organic Compounds in a Novel Anaerobic Reaction Setup. <i>Environments - MDPI</i> , 2018, 5, 115.	3.3	4
77	Anaerobic Digestion of Microalgae: The Benefits of Digesting Microalgae Waste. <i>Current Biochemical Engineering</i> , 2016, 3, 210-222.	1.3	3
78	Performance of Sludge Based Activated Carbons in Catalytic Wet Air Oxidation of Phenol. <i>International Journal of Chemical Reactor Engineering</i> , 2010, 8, .	1.1	2
79	Extraction of enzymes from activated sludge. <i>WIT Transactions on Ecology and the Environment</i> , 2008, , .	0.0	2
80	Influence of type of vacuum residue on the catalytic coprocessing of a demineralized Catalan lignite. <i>Fuel</i> , 1996, 75, 1327-1330.	6.4	1
81	Influence des catalyseurs h <sub>2</sub> O <sub>2</sub> sur le coprocessing d'un lignite du Berguedà avec un résidu de distillation sous vide. <i>Oil &amp; Gas Science &amp; Technology</i> , 1997, 52, 61-71.	0.2	1
82	How the contents of a bachelor's degree final project of engineering evolve towards innovative scientific knowledge: Keys to success. <i>Journal of Technology and Science Education</i> , 2017, 7, 241.	1.2	1
83	Optimisation of a torus reactor geometry using CFD. <i>Computer Aided Chemical Engineering</i> , 2009, 26, 701-705.	0.5	0
84	Performance of Trickle Bed Reactor and Active Carbon in the Liquid Phase Oxidation of Phenol. <i>International Journal of Chemical Reactor Engineering</i> , 2010, 8, .	1.1	0
85	Fenton Coupled with Nanofiltration for Elimination of Tartrazine. <i>Procedia Engineering</i> , 2012, 44, 1781-1782.	1.2	0