

# Mark Daniel G De Luna

## List of Publications by Year in descending order

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183  
papers

7,195  
citations

53794

45  
h-index

82547

72  
g-index

184  
all docs

184  
docs citations

184  
times ranked

6709  
citing authors

#	ARTICLE	IF	CITATIONS
1	Zinc oxide nanoparticles for water disinfection. <i>Sustainable Environment Research</i> , 2018, 28, 47-56.	4.2	292
2	Adsorption of Eriochrome Black T (EBT) dye using activated carbon prepared from waste rice hulls—Optimization, isotherm and kinetic studies. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2013, 44, 646-653.	5.3	239
3	Chemical Oxidation of 2,6-Dimethylaniline in the Fenton Process. <i>Environmental Science &amp; Technology</i> , 2009, 43, 8629-8634.	10.0	221
4	Sustainable biofuel and bioenergy production from biomass waste residues using microwave-assisted heating: A comprehensive review. <i>Chemical Engineering Journal</i> , 2021, 403, 126233.	12.7	192
5	A comprehensive review of hydrogen production from methanol thermochemical conversion for sustainability. <i>Energy</i> , 2021, 217, 119384.	8.8	163
6	Acetaminophen degradation by electro-Fenton and photoelectro-Fenton using a double cathode electrochemical cell. <i>Journal of Hazardous Materials</i> , 2012, 217-218, 200-207.	12.4	143
7	Highly fluorescent carbon dots from enokitake mushroom as multi-faceted optical nanomaterials for Cr <sup>6+</sup> and VOC detection and imaging applications. <i>Applied Surface Science</i> , 2018, 453, 192-203.	6.1	133
8	Evaluation of the effectiveness and mechanisms of acetaminophen and methylene blue dye adsorption on activated biochar derived from municipal solid wastes. <i>Journal of Environmental Management</i> , 2018, 210, 255-262.	7.8	126
9	Fluidized-bed Fenton process as alternative wastewater treatment technology—A review. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2016, 67, 211-225.	5.3	124
10	Oxidation of dichlorvos with hydrogen peroxide using ferrous ion as catalyst. <i>Journal of Hazardous Materials</i> , 1999, 65, 277-288.	12.4	110
11	Adsorption of Methylene Blue dye and Cu(II) ions on EDTA-modified bentonite: Isotherm, kinetic and thermodynamic studies. <i>Sustainable Environment Research</i> , 2018, 28, 197-205.	4.2	109
12	Factors affecting the photocatalytic degradation of dichlorvos over titanium dioxide supported on glass. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 1993, 76, 103-110.	3.9	108
13	The reactor design and comparison of Fenton, electro-Fenton and photoelectro-Fenton processes for mineralization of benzene sulfonic acid (BSA). <i>Journal of Hazardous Materials</i> , 2008, 156, 421-427.	12.4	106
14	Effect of inorganic ions on the oxidation of dichlorvos insecticide with Fenton's reagent. <i>Chemosphere</i> , 1997, 35, 2285-2293.	8.2	105
15	Kinetics of 2,6-dimethylaniline degradation by electro-Fenton process. <i>Journal of Hazardous Materials</i> , 2009, 161, 1484-1490.	12.4	102
16	Recovery of phosphorus from synthetic wastewaters by struvite crystallization in a fluidized-bed reactor: Effects of pH, phosphate concentration and coexisting ions. <i>Chemosphere</i> , 2017, 173, 466-473.	8.2	101
17	Bio-oil production from dry sewage sludge by fast pyrolysis in an electrically-heated fluidized bed reactor. <i>Sustainable Environment Research</i> , 2017, 27, 7-14.	4.2	101
18	Effect of hydrogen peroxide on aniline oxidation by electro-Fenton and fluidized-bed Fenton processes. <i>Journal of Hazardous Materials</i> , 2010, 183, 888-893.	12.4	98

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19	Effect of chloride ions on the oxidation of aniline by Fenton's reagent. <i>Journal of Environmental Management</i> , 2005, 75, 177-182.	7.8	97
20	Removal of sodium diclofenac from aqueous solution by adsorbents derived from cocoa pod husks. <i>Journal of Environmental Chemical Engineering</i> , 2017, 5, 1465-1474.	6.7	89
21	Degradation of acetaminophen by Fenton and electro-Fenton processes in aerator reactor. <i>Separation and Purification Technology</i> , 2012, 99, 8-13.	7.9	85
22	Chemical oxidation of 2,6-dimethylaniline by electrochemically generated Fenton's reagent. <i>Journal of Hazardous Materials</i> , 2010, 176, 92-98.	12.4	77
23	Kinetics of acetaminophen degradation by Fenton oxidation in a fluidized-bed reactor. <i>Chemosphere</i> , 2013, 90, 1444-1448.	8.2	76
24	Hexavalent chromium removal from aqueous solution by adsorbents synthesized from groundwater treatment residuals. <i>Sustainable Environment Research</i> , 2017, 27, 163-171.	4.2	76
25	Applicability of the electrocoagulation process in treating real municipal wastewater containing pharmaceutical active compounds. <i>Journal of Hazardous Materials</i> , 2019, 361, 367-373.	12.4	76
26	Control of emerging contaminants by the combination of electrochemical processes and membrane bioreactors. <i>Environmental Science and Pollution Research</i> , 2019, 26, 1103-1112.	5.3	68
27	Synergistic co-pyrolysis of polyolefin plastics with wood and agricultural wastes for biofuel production. <i>Applied Energy</i> , 2020, 279, 115668.	10.1	67
28	Visible-light photocatalytic diclofenac removal by tunable vanadium pentoxide/boron-doped graphitic carbon nitride composite. <i>Chemical Engineering Journal</i> , 2021, 403, 126213.	12.7	65
29	Combination of Electrochemical Processes with Membrane Bioreactors for Wastewater Treatment and Fouling Control: A Review. <i>Frontiers in Environmental Science</i> , 2016, 4, .	3.3	61
30	Removal of Pharmaceuticals from Wastewater by Intermittent Electrocoagulation. <i>Water (Switzerland)</i> , 2017, 9, 85.	2.7	61
31	Degradations of acetaminophen via a K <sub>2</sub> S <sub>2</sub> O <sub>8</sub> -doped TiO <sub>2</sub> photocatalyst under visible light irradiation. <i>Chemosphere</i> , 2016, 155, 388-394.	8.2	60
32	Modeling and optimization of imidacloprid degradation by catalytic percarbonate oxidation using artificial neural network and Box-Behnken experimental design. <i>Chemosphere</i> , 2020, 251, 126254.	8.2	58
33	Degradation and detoxification of formaline wastewater by advanced oxidation processes. <i>Journal of Hazardous Materials</i> , 2006, 135, 337-343.	12.4	55
34	Iron crystallization in a fluidized-bed Fenton process. <i>Water Research</i> , 2011, 45, 3255-3262.	11.3	54
35	Preparation of highly photoluminescent carbon dots from polyurethane: Optimization using response surface methodology and selective detection of silver (I) ion. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2019, 568, 184-194.	4.7	54
36	Application of central composite design in the optimization of lipid yield from <i>Scenedesmus obliquus</i> microalgae by ultrasound-assisted solvent extraction. <i>Energy</i> , 2018, 157, 949-956.	8.8	52

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37	Application of visible light on copper-doped titanium dioxide catalyzing degradation of chlorophenols. Separation and Purification Technology, 2018, 191, 233-243.	7.9	52
38	Improving the surface properties of municipal solid waste-derived pyrolysis biochar by chemical and thermal activation: Optimization of process parameters and environmental application. Waste Management, 2018, 72, 255-264.	7.4	52
39	Adsorptive removal of dye in wastewater by metal ferrite-enabled graphene oxide nanocomposites. Chemosphere, 2021, 274, 129518.	8.2	52
40	Formaldehyde degradation in the presence of methanol by photo-Fenton process. Journal of Environmental Management, 2008, 86, 545-553.	7.8	51
41	Combined treatment of polishing wastewater and fluoride-containing wastewater from a semiconductor manufacturer. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2009, 347, 64-68.	4.7	51
42	Degradation of dimethyl sulfoxide through fluidized-bed Fenton process. Journal of Hazardous Materials, 2015, 300, 218-226.	12.4	51
43	Percarbonate mediated advanced oxidation completely degrades recalcitrant pesticide imidacloprid: Role of reactive oxygen species and transformation products. Separation and Purification Technology, 2020, 250, 117269.	7.9	50
44	Inhibitory effect of inorganic ions on nitrobenzene oxidation by fluidized-bed Fenton process. Journal of Molecular Catalysis A, 2010, 331, 101-105.	4.8	48
45	Degradation of tetracycline antibiotics by Fe <sup>2+</sup> -catalyzed percarbonate oxidation. Science of the Total Environment, 2021, 781, 146411.	8.0	48
46	Effect of UV light on acetaminophen degradation in the electro-Fenton process. Separation and Purification Technology, 2013, 120, 43-51.	7.9	47
47	Phosphorous recovery by means of fluidized bed homogeneous crystallization of calcium phosphate. Influence of operational variables and electrolytes on brushite homogeneous crystallization. Journal of the Taiwan Institute of Chemical Engineers, 2018, 83, 124-132.	5.3	47
48	Catalytic degradation of nitroaromatic explosives with Fenton's reagent. Journal of Molecular Catalysis A, 2007, 277, 155-163.	4.8	46
49	Photocatalytic oxidation of acetaminophen using carbon self-doped titanium dioxide. Sustainable Environment Research, 2016, 26, 161-167.	4.2	46
50	Removal of nickel ions from aqueous solutions by manganese dioxide derived from groundwater treatment sludge. Journal of Cleaner Production, 2018, 190, 443-451.	9.3	46
51	A statistical experimental design to determine o-toluidine degradation by the photo-Fenton process. Chemical Engineering Journal, 2010, 159, 116-122.	12.7	41
52	Degradation of gaseous formaldehyde via visible light photocatalysis using multi-element doped titania nanoparticles. Chemosphere, 2017, 182, 174-182.	8.2	41
53	Kinetics of sulfur removal in high shear mixing-assisted oxidative-adsorptive desulfurization of diesel. Journal of Cleaner Production, 2018, 178, 468-475.	9.3	41
54	Photocatalytic oxidation of gaseous DMF using thin film TiO <sub>2</sub> photocatalyst. Chemosphere, 2005, 58, 1071-1078.	8.2	40

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55	Removal and recovery of lead in a fluidized-bed reactor by crystallization process. <i>Hydrometallurgy</i> , 2015, 155, 6-12.	4.3	40
56	Using activated clay for adsorption of sulfone compounds in diesel. <i>Journal of Cleaner Production</i> , 2016, 124, 378-382.	9.3	40
57	Application of artificial neural network in the modeling and optimization of humic acid extraction from municipal solid waste biochar. <i>Journal of Environmental Chemical Engineering</i> , 2017, 5, 4101-4107.	6.7	40
58	Are pharmaceuticals removal and membrane fouling in electromembrane bioreactor affected by current density?. <i>Science of the Total Environment</i> , 2019, 692, 732-740.	8.0	40
59	Treatment of TFT-LCD wastewater containing ethanolamine by fluidized-bed Fenton technology. <i>Bioresource Technology</i> , 2012, 113, 272-275.	9.6	39
60	Competitive Fixed-Bed Adsorption of Pb(II), Cu(II), and Ni(II) from Aqueous Solution Using Chitosan-Coated Bentonite. <i>International Journal of Polymer Science</i> , 2016, 2016, 1-11.	2.7	39
61	Nickel recovery from synthetic Watts bath electroplating wastewater by homogeneous fluidized bed granulation process. <i>Separation and Purification Technology</i> , 2016, 169, 128-136.	7.9	39
62	Utilization of groundwater treatment plant (GWTP) sludge for nickel removal from aqueous solutions: Isotherm and kinetic studies. <i>Journal of Environmental Chemical Engineering</i> , 2017, 5, 5746-5753.	6.7	39
63	Fluidized-bed Fenton treatment of imidacloprid: Optimization and degradation pathway. <i>Sustainable Environment Research</i> , 2018, 28, 309-314.	4.2	39
64	Removal of 4-chlorophenol by visible-light photocatalysis using ammonium iron(II) sulfate-doped nano-titania. <i>Chemical Engineering Research and Design</i> , 2019, 125, 121-128.	5.6	39
65	Kinetics of 2,6-dimethylaniline oxidation by various Fenton processes. <i>Journal of Hazardous Materials</i> , 2011, 192, 347-53.	12.4	38
66	Magnesium phosphate crystallization in a fluidized-bed reactor: Effects of pH, Mg:P molar ratio and seed. <i>Separation and Purification Technology</i> , 2014, 125, 90-96.	7.9	38
67	The Oxidative Desulfurization of Fuels with a Transition Metal Catalyst: A Comparative Assessment of Different Mixing Techniques. <i>International Journal of Green Energy</i> , 2014, 11, 833-848.	3.8	37
68	Mineralization of 2,6-dimethylaniline by photoelectro-Fenton process. <i>Applied Catalysis A: General</i> , 2010, 384, 128-135.	4.3	36
69	Removal of monoethanolamine and phosphate from thin-film transistor liquid crystal display (TFT-LCD) wastewater by the fluidized-bed Fenton process. <i>Chemical Engineering Journal</i> , 2013, 222, 128-135.	12.7	36
70	Assessing biodiesel production from sewage sludge-derived bio-oil. <i>Biocatalysis and Agricultural Biotechnology</i> , 2017, 10, 189-196.	3.1	36
71	Removal of nickel by homogeneous granulation in a fluidized-bed reactor. <i>Chemosphere</i> , 2016, 164, 59-67.	8.2	35
72	Factors that influence degradation of acetaminophen by Fenton processes. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2014, 45, 565-570.	5.3	34

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73	Removal and recovery of calcium from aqueous solutions by fluidized-bed homogeneous crystallization. <i>Chemical Engineering Research and Design</i> , 2019, 128, 307-315.	5.6	33
74	Novel solution- and paper-based sensors based on label-free fluorescent carbon dots for the selective detection of pyrimethanil. <i>Applied Surface Science</i> , 2021, 564, 150372.	6.1	33
75	A critical review on second- and third-generation bioethanol production using microwaved-assisted heating (MAH) pretreatment. <i>Renewable and Sustainable Energy Reviews</i> , 2021, 152, 111679.	16.4	33
76	Comparison of dimethyl sulfoxide degradation by different Fenton processes. <i>Chemical Engineering Journal</i> , 2013, 232, 418-424.	12.7	32
77	Effect of catalyst calcination temperature in the visible light photocatalytic oxidation of gaseous formaldehyde by multi-element doped titanium dioxide. <i>Environmental Science and Pollution Research</i> , 2018, 25, 15216-15225.	5.3	32
78	Insights into the rapid elimination of antibiotics from aqueous media by tunable C3N4 photocatalysts: Effects of dopant amount, co-existing ions and reactive oxygen species. <i>Science of the Total Environment</i> , 2019, 669, 1053-1061.	8.0	32
79	Comparison of o-toluidine degradation by Fenton, electro-Fenton and photoelectro-Fenton processes. <i>Journal of Hazardous Materials</i> , 2011, 196, 395-401.	12.4	31
80	Rapid removal of sulfamethoxazole from simulated water matrix by visible-light responsive iodine and potassium co-doped graphitic carbon nitride photocatalysts. <i>Chemosphere</i> , 2018, 210, 1099-1107.	8.2	31
81	Photocatalytic degradation of acetaminophen in modified TiO <sub>2</sub> under visible irradiation. <i>Environmental Science and Pollution Research</i> , 2014, 21, 1208-1216.	5.3	30
82	Phosphate recovery from fluidized-bed wastewater by struvite crystallization technology. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2014, 45, 2395-2402.	5.3	30
83	Enhancement of biodegradability of o-toluidine effluents by electro-assisted photo-Fenton treatment. <i>Chemical Engineering Research and Design</i> , 2017, 106, 60-67.	5.6	30
84	Chemical precipitation at extreme fluoride concentration and potential recovery of CaF <sub>2</sub> particles by fluidized-bed homogenous crystallization process. <i>Chemical Engineering Journal</i> , 2021, 415, 128917.	12.7	29
85	Ultrasound-assisted oxidative desulfurization (UAOD) using phosphotungstic acid: effect of process parameters on sulfur removal. <i>Desalination and Water Treatment</i> , 2012, 47, 96-104.	1.0	28
86	Removal of copper ions from aqueous solution by adlai shell ( <i>Coix lacryma-jobi</i> L.) adsorbents. <i>Bioresource Technology</i> , 2015, 192, 841-844.	9.6	28
87	Ultrasonic cleaning of polytetrafluoroethylene membrane fouled by natural organic matter. <i>Journal of Membrane Science</i> , 2016, 497, 450-457.	8.2	28
88	Improving the stability of diesel emulsions with high pyrolysis bio-oil content by alcohol co-surfactants and high shear mixing strategies. <i>Energy</i> , 2017, 141, 1416-1428.	8.8	28
89	Fluoride network and circular economy as potential model for sustainable development-A review. <i>Chemosphere</i> , 2020, 239, 124662.	8.2	28
90	Photocatalytic activity of tungsten-doped TiO <sub>2</sub> with hydrothermal treatment under blue light irradiation. <i>Journal of Environmental Management</i> , 2011, 92, 2272-2276.	7.8	27

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91	Oxidation of aniline by titanium dioxide activated with visible light. Separation and Purification Technology, 2012, 84, 132-137.	7.9	27
92	Degradation of acetaminophen in an aerated Fenton reactor. Journal of the Taiwan Institute of Chemical Engineers, 2013, 44, 310-316.	5.3	27
93	Upgrading of Scenedesmus obliquus oil to high-quality liquid-phase biofuel by nickel-impregnated biochar catalyst. Journal of Cleaner Production, 2019, 209, 1052-1060.	9.3	27
94	Recovery of oxalate from bauxite wastewater using fluidized-bed homogeneous granulation process. Journal of Cleaner Production, 2017, 154, 130-138.	9.3	26
95	Kinetics of Mixing-Assisted Oxidative Desulfurization of Dibenzothiophene in Toluene Using a Phosphotungstic Acid/Hydrogen Peroxide System: Effects of Operating Conditions. Energy & Fuels, 2017, 31, 9923-9929.	5.1	26
96	Water reuse nexus with resource recovery: On the fluidized-bed homogeneous crystallization of copper and phosphate from semiconductor wastewater. Journal of Cleaner Production, 2019, 236, 117705.	9.3	26
97	In situ transesterification of Chlorella sp. microalgae using LiOH-pumice catalyst. Journal of Environmental Chemical Engineering, 2017, 5, 2830-2835.	6.7	25
98	Transesterification of soybean oil using a novel heterogeneous base catalyst: Synthesis and characterization of Na-pumice catalyst, optimization of transesterification conditions, studies on reaction kinetics and catalyst reusability. Fuel, 2017, 209, 246-253.	6.4	25
99	Kinetic study of acetaminophen degradation by visible light photocatalysis. Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering, 2014, 49, 892-899.	1.7	24
100	Nickel ferrite nanoenabled graphene oxide (NiFe <sub>2</sub> O <sub>4</sub> @GO) as photoactive nanocomposites for water treatment. Environmental Science and Pollution Research, 2021, 28, 5472-5481.	5.3	24
101	Recovery of copper salts by fluidized-bed homogeneous granulation process: High selectivity on malachite crystallization. Hydrometallurgy, 2019, 186, 66-72.	4.3	23
102	Nitrogen and fluorine co-doped 3-dimensional reduced graphene oxide architectures as high-performance electrode material for capacitive deionization of copper ions. Separation and Purification Technology, 2021, 272, 117559.	7.9	23
103	Enhanced visible-light-driven photocatalytic degradation of acetaminophen over CeO <sub>2</sub> /I, K-codoped C <sub>3</sub> N <sub>4</sub> heterojunction with tunable properties in simulated water matrix. Separation and Purification Technology, 2021, 272, 117567.	7.9	23
104	Facile fabrication of 17 <sup>2</sup> -estradiol electrochemical sensor using polyaniline/carbon dot-coated glassy carbon electrode with synergistically enhanced electrochemical stability. Talanta, 2021, 235, 122782.	5.5	23
105	Removal of chemical oxygen demand from thin-film transistor liquid-crystal display wastewater using chitosan-coated bentonite: Isotherm, kinetics and optimization studies. Journal of Cleaner Production, 2018, 175, 145-154.	9.3	22
106	Removal of sodium diclofenac from aqueous solutions by rice hull biochar. Biochar, 2021, 3, 189-200.	12.6	22
107	Bioethanol production from Chlorella vulgaris ESP-31 grown in unsterilized swine wastewater. Bioresource Technology, 2022, 352, 127086.	9.6	22
108	The effect of the composition of tri-elemental doping (K, Al, S) on the photocatalytic performance of synthesized TiO <sub>2</sub> nanoparticles in oxidizing 2-chlorophenol over visible light illumination. Applied Catalysis A: General, 2011, 401, 233-238.	4.3	21

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109	Treatment of thin film transistor-liquid crystal display (TFT-LCD) wastewater by the electro-Fenton process. <i>Separation and Purification Technology</i> , 2015, 145, 104-112.	7.9	21
110	Removal of ammonium-nitrogen from aqueous solution using chitosan-coated bentonite: Mechanism and effect of operating parameters. <i>Journal of Applied Polymer Science</i> , 2018, 135, 45924.	2.6	21
111	Optimum recovery of phosphate from simulated wastewater by unseeded fluidized-bed crystallization process. <i>Separation and Purification Technology</i> , 2019, 212, 783-790.	7.9	21
112	Removal of sulfate by fluidized bed crystallization process. <i>Journal of Environmental Chemical Engineering</i> , 2017, 5, 2431-2439.	6.7	21
113	Optimization of acetaminophen degradation by fluidized-bed Fenton process. <i>Desalination and Water Treatment</i> , 2012, 45, 100-111.	1.0	20
114	Removal of oxidized sulfur compounds using different types of activated carbon, aluminum oxide, and chitosan-coated bentonite. <i>Desalination and Water Treatment</i> , 2014, 52, 873-879.	1.0	20
115	Electro-assisted Fenton treatment of ammunition wastewater containing nitramine explosives. <i>Chemical Engineering Research and Design</i> , 2017, 109, 429-436.	5.6	20
116	Evaluation of continuously mixed reactor configurations in the oxidative-adsorptive desulfurization of diesel fuel: Optimization and parametric studies. <i>Journal of Cleaner Production</i> , 2018, 203, 664-673.	9.3	20
117	Manganese and iron recovery from groundwater treatment sludge by reductive acid leaching and hydroxide precipitation. <i>Journal of Environmental Management</i> , 2018, 223, 723-730.	7.8	20
118	Catalytic microwave-assisted torrefaction of sugarcane bagasse with calcium oxide optimized via Taguchi approach: Product characterization and energy analysis. <i>Fuel</i> , 2021, 305, 121543.	6.4	20
119	Calcium-based seeded precipitation for simultaneous removal of fluoride and phosphate: Its optimization using BBD-RSM and defluoridation mechanism. <i>Journal of Water Process Engineering</i> , 2022, 47, 102658.	5.6	20
120	Factors affecting degradation of dimethyl sulfoxide (DMSO) by fluidized-bed Fenton process. <i>Environmental Science and Pollution Research</i> , 2014, 21, 14158-14165.	5.3	19
121	Application of mathematical modeling and electrochemical iron dosing strategies to improve the treatment performance of the electro-Fenton process. <i>Journal of Cleaner Production</i> , 2018, 181, 437-448.	9.3	19
122	Isotherm and Thermodynamic Studies on the Removal of Sulfur from Diesel Fuel by Mixing-Assisted Oxidative-Adsorptive Desulfurization Technology. <i>Energy &amp; Fuels</i> , 2019, 33, 1098-1105.	5.1	19
123	Adsorption of dibenzothiophene sulfone from fuel using chitosan-coated bentonite (CCB) as biosorbent. <i>Desalination and Water Treatment</i> , 2016, 57, 5108-5118.	1.0	18
124	Optimization of As(V) removal using chitosan-coated bentonite from groundwater using Box-Behnken design: effects of adsorbent mass, flow rate, and initial concentration. <i>Desalination and Water Treatment</i> , 2016, 57, 18739-18747.	1.0	18
125	Ultrasound-assisted synthesis of adsorbents from groundwater treatment residuals for hexavalent chromium removal from aqueous solutions. <i>Groundwater for Sustainable Development</i> , 2017, 5, 253-260.	4.6	18
126	Calcium carbonate granulation in a fluidized-bed reactor: Kinetic, parametric and granule characterization analyses. <i>Chemical Engineering Journal</i> , 2020, 382, 122879.	12.7	18



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127	Operating pH influences homogeneous calcium carbonate granulation in the frame of CO <sub>2</sub> capture. <i>Journal of Cleaner Production</i> , 2020, 272, 122325.	9.3	18
128	Multivariate optimization of phosphate removal and recovery from aqueous solution by struvite crystallization in a fluidized-bed reactor. <i>Desalination and Water Treatment</i> , 2015, 55, 496-505.	1.0	17
129	Implementation of fluidized-bed Fenton as pre-treatment to reduce chemical oxygen demand of wastewater from screw manufacture: Influence of reagents feeding mode. <i>Separation and Purification Technology</i> , 2018, 202, 275-280.	7.9	17
130	Enhanced recovery of aluminum from wastewater using a fluidized bed homogeneously dispersed granular reactor. <i>Chemosphere</i> , 2019, 223, 330-341.	8.2	17
131	Impact of post-torrefaction process on biochar formation from wood pellets and self-heating phenomena for production safety. <i>Energy</i> , 2020, 207, 118324.	8.8	17
132	Influence of hydrocarbons on hydrogen chloride removal from refinery off-gas by zeolite NaY derived from rice husks. <i>Science of the Total Environment</i> , 2020, 728, 138782.	8.0	17
133	Effect of calcination time of a quadruple-element doped titania nanoparticles in the photodegradation of gaseous formaldehyde under blue light irradiation. <i>Chemosphere</i> , 2020, 246, 125763.	8.2	16
134	Beyond carbon capture towards resource recovery and utilization: fluidized-bed homogeneous granulation of calcium carbonate from captured CO <sub>2</sub> . <i>Chemosphere</i> , 2020, 250, 126325.	8.2	16
135	Electrochemically-driven regeneration of iron (II) enhances Fenton abatement of pesticide cartap. <i>Journal of Hazardous Materials</i> , 2022, 421, 126713.	12.4	15
136	Effect of EDTA and CH <sub>2</sub> O on copper recovery from simulated electroless copper plating spent rinse water by unseeded fluidized-bed granulation process. <i>Separation and Purification Technology</i> , 2020, 253, 117460.	7.9	14
137	Synthesis of 5-hydroxymethylfurfural from glucose, fructose, cellulose and agricultural wastes over sulfur-doped peanut shell catalysts in ionic liquid. <i>Chemosphere</i> , 2022, 291, 132829.	8.2	14
138	Treatment of explosive-contaminated wastewater through the Fenton process. <i>Desalination and Water Treatment</i> , 2013, 51, 2820-2825.	1.0	13
139	Optimization of visible-light photocatalytic degradation of acetaminophen by K <sub>3</sub> [Fe(CN) <sub>6</sub> ]-modified TiO <sub>2</sub> . <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2015, 49, 129-135.	5.3	13
140	Electrochemical in-situ hydrogen peroxide generation in a packed-bed reactor for Fenton oxidation of p-nitrophenol in aqueous solution. <i>Chemical Engineering Research and Design</i> , 2019, 123, 161-168.	5.6	13
141	Electrochemically-driven dosing of iron (II) for autonomous electro-Fenton processes with in situ generation of H <sub>2</sub> O <sub>2</sub> . <i>Journal of Electroanalytical Chemistry</i> , 2020, 856, 113639.	3.8	13
142	Adsorption of Sulfur Compounds from Diesel with Ion-Impregnated Activated Carbons. <i>Energy &amp; Fuels</i> , 2016, 30, 3870-3878.	5.1	12
143	Alachlor photocatalytic degradation over uncalcined Fe <sup>3+</sup> -TiO <sub>2</sub> loaded on granular activated carbon under UV and visible light irradiation. <i>Desalination and Water Treatment</i> , 2016, 57, 6712-6722.	1.0	12
144	Nonlinear Isotherm and Kinetic Modeling of Cu(II) and Pb(II) Uptake from Water by MnFe <sub>2</sub> O <sub>4</sub> /Chitosan Nano-adsorbents. <i>Water (Switzerland)</i> , 2021, 13, 1662.	2.7	12

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145	Isotherm, Kinetics and Thermodynamics of Cu(II) and Pb(II) Adsorption on Groundwater Treatment Sludge-Derived Manganese Dioxide for Wastewater Treatment Applications. <i>International Journal of Environmental Research and Public Health</i> , 2021, 18, 3050.	2.6	11
146	Doping TiO <sub>2</sub> with CuSO <sub>4</sub> enhances visible light photocatalytic activity for organic pollutant degradation. <i>Environmental Science and Pollution Research</i> , 2020, 27, 24604-24613.	5.3	10
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