

# Angel F Mohedano

## List of Publications by Year in descending order

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123  
papers

6,021  
citations

71004

43  
h-index

90395

73  
g-index

128  
all docs

128  
docs citations

128  
times ranked

6468  
citing authors

#	ARTICLE	IF	CITATIONS
1	An overview of ionic liquid degradation by advanced oxidation processes. <i>Critical Reviews in Environmental Science and Technology</i> , 2022, 52, 2844-2887.	6.6	7
2	Energy recovery from garden and park waste by hydrothermal carbonisation and anaerobic digestion. <i>Waste Management</i> , 2022, 140, 100-109.	3.7	25
3	Improved energy recovery from food waste through hydrothermal carbonization and anaerobic digestion. <i>Waste Management</i> , 2022, 142, 9-18.	3.7	39
4	Integration of hydrothermal carbonization and aqueous phase reforming for energy recovery from sewage sludge. <i>Chemical Engineering Journal</i> , 2022, 442, 136301.	6.6	36
5	Nitrate reduction with bimetallic catalysts. A stability-addressed overview. <i>Separation and Purification Technology</i> , 2022, 290, 120750.	3.9	23
6	Energy recovery from food waste and garden and park waste: Anaerobic co-digestion versus hydrothermal treatment and anaerobic co-digestion. <i>Chemosphere</i> , 2022, 297, 134223.	4.2	34
7	Activated Carbons from Hydrothermal Carbonization and Chemical Activation of Olive Stones: Application in Sulfamethoxazole Adsorption. <i>Resources</i> , 2022, 11, 43.	1.6	11
8	Acid-mediated hydrothermal treatment of sewage sludge for nutrient recovery. <i>Science of the Total Environment</i> , 2022, 838, 156494.	3.9	17
9	Activity and Stability of Pd Bimetallic Catalysts for Catalytic Nitrate Reduction. <i>Catalysts</i> , 2022, 12, 729.	1.6	3
10	Effect of water composition on catalytic reduction of nitrate. <i>Separation and Purification Technology</i> , 2021, 255, 117766.	3.9	12
11	Integration of Hydrothermal Carbonization and Anaerobic Digestion for Energy Recovery of Biomass Waste: An Overview. <i>Energy &amp; Fuels</i> , 2021, 35, 17032-17050.	2.5	53
12	Fate of nutrients during hydrothermal treatment of food waste. <i>Bioresource Technology</i> , 2021, 342, 125954.	4.8	29
13	Pretreatment of Lignocellulosic Biomass with 1-Ethyl-3-methylimidazolium Acetate for Its Eventual Valorization by Anaerobic Digestion. <i>Resources</i> , 2021, 10, 118.	1.6	5
14	Thiamethoxam removal by Fenton and biological oxidation. <i>Journal of Chemical Technology and Biotechnology</i> , 2020, 95, 913-921.	1.6	11
15	Biological oxidation of choline-based ionic liquids in sequencing batch reactors. <i>Journal of Chemical Technology and Biotechnology</i> , 2020, 95, 922-931.	1.6	7
16	Cation and anion effect on the biodegradability and toxicity of imidazolium and choline-based ionic liquids. <i>Chemosphere</i> , 2020, 240, 124947.	4.2	73
17	Anaerobic co-digestion of the process water from waste activated sludge hydrothermally treated with primary sewage sludge. A new approach for sewage sludge management. <i>Renewable Energy</i> , 2020, 146, 435-443.	4.3	45
18	Contamination of N-poor wastewater with emerging pollutants does not affect the performance of purple phototrophic bacteria and the subsequent resource recovery potential. <i>Journal of Hazardous Materials</i> , 2020, 385, 121617.	6.5	21

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19	Toxicity and inhibition assessment of ionic liquids by activated sludge. <i>Ecotoxicology and Environmental Safety</i> , 2020, 187, 109836.	2.9	25
20	Anaerobic digestion for methane and hydrogen production. , 2020, , 67-83.		1
21	Technologies for wastewater sludge utilization and energy production: Hydrothermal carbonization of lignocellulosic biomass and sewage sludge. , 2020, , 133-153.		2
22	Ionic liquids removal by sequential photocatalytic and biological oxidation. <i>Journal of Chemical Technology and Biotechnology</i> , 2020, 95, 1926-1935.	1.6	15
23	Techno-economic and life cycle assessment of an integrated hydrothermal carbonization system for sewage sludge. <i>Journal of Cleaner Production</i> , 2020, 277, 122930.	4.6	99
24	Potential Use of Waste Activated Sludge Hydrothermally Treated as a Renewable Fuel or Activated Carbon Precursor. <i>Molecules</i> , 2020, 25, 3534.	1.7	20
25	Energy valorization of cow manure by hydrothermal carbonization and anaerobic digestion. <i>Renewable Energy</i> , 2020, 160, 623-632.	4.3	76
26	Factors Affecting Solubilization of Phosphorus and Nitrogen through Hydrothermal Carbonization of Animal Manure. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 12462-12470.	3.2	36
27	Energy and phosphorous recovery through hydrothermal carbonization of digested sewage sludge. <i>Waste Management</i> , 2020, 105, 566-574.	3.7	93
28	Co-application of activated carbon and compost to contaminated soils: toxic elements mobility and PAH degradation and availability. <i>International Journal of Environmental Science and Technology</i> , 2019, 16, 1057-1068.	1.8	20
29	Low-Cost Activated Grape Seed-Derived Hydrochar through Hydrothermal Carbonization and Chemical Activation for Sulfamethoxazole Adsorption. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 5127.	1.3	33
30	Anaerobic co-digestion of the aqueous phase from hydrothermally treated waste activated sludge with primary sewage sludge. A kinetic study. <i>Journal of Environmental Management</i> , 2019, 231, 726-733.	3.8	48
31	Removal of imidazolium-based ionic liquid by coupling Fenton and biological oxidation. <i>Journal of Hazardous Materials</i> , 2019, 365, 289-296.	6.5	28
32	Catalytic wet peroxide oxidation of imidazolium-based ionic liquids: Catalyst stability and biodegradability enhancement. <i>Chemical Engineering Journal</i> , 2019, 376, 120431.	6.6	13
33	Valorization of microalgal biomass by hydrothermal carbonization and anaerobic digestion. <i>Bioresource Technology</i> , 2019, 274, 395-402.	4.8	66
34	Sono- and photoelectrocatalytic processes for the removal of ionic liquids based on the 1-butyl-3-methylimidazolium cation. <i>Journal of Hazardous Materials</i> , 2019, 372, 77-84.	6.5	16
35	Mesophilic anaerobic co-digestion of the organic fraction of municipal solid waste with the liquid fraction from hydrothermal carbonization of sewage sludge. <i>Waste Management</i> , 2018, 76, 315-322.	3.7	72
36	Electrolysis with diamond anodes: Eventually, there are refractory species!. <i>Chemosphere</i> , 2018, 195, 771-776.	4.2	18

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37	Removal of imidazolium- and pyridinium-based ionic liquids by Fenton oxidation. <i>Environmental Science and Pollution Research</i> , 2018, 25, 34930-34937.	2.7	33
38	Effect of inoculum source and initial concentration on the anaerobic digestion of the liquid fraction from hydrothermal carbonisation of sewage sludge. <i>Renewable Energy</i> , 2018, 127, 697-704.	4.3	69
39	Influence of the supporting electrolyte on the removal of ionic liquids by electrolysis with diamond anodes. <i>Catalysis Today</i> , 2018, 313, 203-210.	2.2	17
40	Valorisation of the liquid fraction from hydrothermal carbonisation of sewage sludge by anaerobic digestion. <i>Journal of Chemical Technology and Biotechnology</i> , 2018, 93, 450-456.	1.6	59
41	Stability of carbon-supported iron catalysts for catalytic wet peroxide oxidation of ionic liquids. <i>Journal of Environmental Chemical Engineering</i> , 2018, 6, 6444-6450.	3.3	7
42	Assessment the ecotoxicity and inhibition of imidazolium ionic liquids by respiration inhibition assays. <i>Ecotoxicology and Environmental Safety</i> , 2018, 162, 29-34.	2.9	31
43	Anaerobic Co-digestion of the Organic Fraction of Municipal Solid Waste and the Liquid Fraction From the Hydrothermal Carbonization of Industrial Sewage Sludge Under Thermophilic Conditions. <i>Frontiers in Sustainable Food Systems</i> , 2018, 2, .	1.8	13
44	CWPO of bisphenol A with iron catalysts supported on microporous carbons from grape seeds activation. <i>Chemical Engineering Journal</i> , 2017, 318, 153-160.	6.6	25
45	Enhanced anaerobic degradability of highly polluted pesticides-bearing wastewater under thermophilic conditions. <i>Journal of Hazardous Materials</i> , 2017, 339, 320-329.	6.5	30
46	Efficient Treatment of Synthetic Wastewater Contaminated with Emerging Pollutants by Anaerobic Purple Phototrophic Bacteria. <i>Lecture Notes in Civil Engineering</i> , 2017, , 324-330.	0.3	2
47	Iron catalysts by chemical activation of sewage sludge with FeCl <sub>3</sub> for CWPO. <i>Chemical Engineering Journal</i> , 2017, 318, 224-230.	6.6	72
48	Fouling control in membrane bioreactors with sewage-sludge based adsorbents. <i>Water Research</i> , 2016, 105, 65-75.	5.3	18
49	On the performance of Pd and Rh catalysts over different supports in the hydrodechlorination of the MCPA herbicide. <i>Applied Catalysis B: Environmental</i> , 2016, 186, 151-156.	10.8	19
50	Assessment of toxicity and biodegradability on activated sludge of priority and emerging pollutants. <i>Environmental Technology (United Kingdom)</i> , 2016, 37, 713-721.	1.2	35
51	Degradation of organochlorinated pollutants in water by catalytic hydrodechlorination and photocatalysis. <i>Catalysis Today</i> , 2016, 266, 168-174.	2.2	23
52	Analysis of the deactivation of Pd, Pt and Rh on activated carbon catalysts in the hydrodechlorination of the MCPA herbicide. <i>Applied Catalysis B: Environmental</i> , 2016, 181, 429-435.	10.8	31
53	Colloidal and microemulsion synthesis of rhenium nanoparticles in aqueous medium. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2015, 469, 202-210.	2.3	16
54	Short-term fouling control by cyclic aeration in membrane bioreactors for cosmetic wastewater treatment. <i>Desalination and Water Treatment</i> , 2015, 56, 3599-3606.	1.0	11

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55	Application of Fenton-like oxidation as pre-treatment for carbamazepine biodegradation. <i>Chemical Engineering Journal</i> , 2015, 264, 856-862.	6.6	60
56	Catalytic hydrodechlorination of p-chloro-m-cresol and 2,4,6-trichlorophenol with Pd and Rh supported on Al-pillared clays. <i>Chemical Engineering Journal</i> , 2015, 273, 363-370.	6.6	19
57	Harmonization of the quantitative determination of volatile fatty acids profile in aqueous matrix samples by direct injection using gas chromatography and high-performance liquid chromatography techniques: Multi-laboratory validation study. <i>Journal of Chromatography A</i> , 2015, 1413, 94-106.	1.8	25
58	Deactivation of a Pd/AC catalyst in the hydrodechlorination of chlorinated herbicides. <i>Catalysis Today</i> , 2015, 241, 86-91.	2.2	30
59	Comparison of bioaugmented EGSB and GAC-FBB reactors and their combination with aerobic SBR for the abatement of chlorophenols. <i>Chemical Engineering Journal</i> , 2015, 259, 277-285.	6.6	25
60	Treatment of cosmetic wastewater by a full-scale membrane bioreactor (MBR). <i>Environmental Science and Pollution Research</i> , 2014, 21, 12662-12670.	2.7	17
61	Anaerobic biodegradability of mixtures of pesticides in an expanded granular sludge bed reactor. <i>Water Science and Technology</i> , 2014, 69, 532-538.	1.2	13
62	Comparison of Fenton and Fenton-like oxidation for the treatment of cosmetic wastewater. <i>Water Science and Technology</i> , 2014, 70, 472-478.	1.2	13
63	Highly stable iron catalysts from sewage sludge for CWPO. <i>Journal of Environmental Chemical Engineering</i> , 2014, 2, 2359-2364.	3.3	30
64	Strategies to evaluate biodegradability: application to chlorinated herbicides. <i>Environmental Science and Pollution Research</i> , 2014, 21, 9445-9452.	2.7	28
65	Coupling Fenton and biological oxidation for the removal of nitrochlorinated herbicides from water. <i>Water Research</i> , 2014, 49, 197-206.	5.3	43
66	ANALYSIS OF THE OPERATING CONDITIONS IN THE TREATMENT OF COSMETIC WASTEWATER BY SEQUENCING BATCH REACTORS. <i>Environmental Engineering and Management Journal</i> , 2014, 13, 2955-2962.	0.2	7
67	Low-temperature anaerobic treatment of low-strength pentachlorophenol-bearing wastewater. <i>Bioresource Technology</i> , 2013, 140, 349-356.	4.8	24
68	Degradation of chlorophenoxy herbicides by coupled Fenton and biological oxidation. <i>Chemosphere</i> , 2013, 93, 115-122.	4.2	53
69	Identification of by-products and toxicity assessment in aqueous-phase hydrodechlorination of diuron with palladium on activated carbon catalysts. <i>Chemosphere</i> , 2013, 91, 1317-1323.	4.2	13
70	Adsorption of 4-chlorophenol by inexpensive sewage sludge-based adsorbents. <i>Chemical Engineering Research and Design</i> , 2012, 90, 1807-1814.	2.7	58
71	Catalytic behavior of size-controlled palladium nanoparticles in the hydrodechlorination of 4-chlorophenol in aqueous phase. <i>Journal of Catalysis</i> , 2012, 293, 85-93.	3.1	107
72	Inhibition of methanogenesis by chlorophenols: a kinetic approach. <i>New Biotechnology</i> , 2012, 30, 51-61.	2.4	27

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73	Intensification of sequencing batch reactors by cometabolism and bioaugmentation with <i>Pseudomonas putida</i> for the biodegradation of 4-chlorophenol. Journal of Chemical Technology and Biotechnology, 2012, 87, 1270-1275.	1.6	22
74	On the biodegradability of nitrophenols and their reaction products by catalytic hydrogenation*. Journal of Chemical Technology and Biotechnology, 2012, 87, 1263-1269.	1.6	6
75	Enhancement of cometabolic biodegradation of 4-chlorophenol induced with phenol and glucose as carbon sources by <i>Comamonas testosteroni</i> . Journal of Environmental Management, 2012, 95, S116-S121.	3.8	75
76	Anaerobic treatment of wastewater from used industrial oil recovery. Journal of Chemical Technology and Biotechnology, 2012, 87, 1320-1328.	1.6	18
77	Effect of 2,4,6-trichlorophenol on the microbial activity of adapted anaerobic granular sludge bioaugmented with <i>Desulfitobacterium</i> strains. New Biotechnology, 2011, 29, 79-89.	2.4	26
78	Comparison of experimental methods for determination of toxicity and biodegradability of xenobiotic compounds. Biodegradation, 2011, 22, 751-761.	1.5	49
79	Cosmetic wastewater treatment by upflow anaerobic sludge blanket reactor. Journal of Hazardous Materials, 2011, 185, 1059-1065.	6.5	46
80	Highly stable $\text{Fe}^{2+}/\text{O}_3$ catalyst for catalytic wet peroxide oxidation. Journal of Chemical Technology and Biotechnology, 2011, 86, 497-504.	1.6	63
81	Activated carbons from sewage sludge. Desalination, 2011, 277, 377-382.	4.0	124
82	Compared activity and stability of Pd/Al <sub>2</sub> O <sub>3</sub> and Pd/AC catalysts in 4-chlorophenol hydrodechlorination in different pH media. Applied Catalysis B: Environmental, 2011, 103, 128-135.	10.8	89
83	Comparison of activated carbon-supported Pd and Rh catalysts for aqueous-phase hydrodechlorination. Applied Catalysis B: Environmental, 2011, 106, 469-475.	10.8	81
84	Anaerobic biodegradation of 2,4,6-trichlorophenol in expanded granular sludge bed and fluidized bed biofilm reactors bioaugmented with <i>Desulfitobacterium</i> spp.. Water Science and Technology, 2011, 64, 293-299.	1.2	7
85	Catalytic wet peroxide oxidation of cosmetic wastewaters with Fe-bearing catalysts. Catalysis Today, 2010, 151, 148-152.	2.2	81
86	Hydrodechlorination of diuron in aqueous solution with Pd, Cu and Ni on activated carbon catalysts. Chemical Engineering Journal, 2010, 163, 212-218.	6.6	24
87	Denitrification of Water with Activated Carbon-Supported Metallic Catalysts. Industrial & Engineering Chemistry Research, 2010, 49, 5603-5609.	1.8	51
88	Oxidation of cosmetic wastewaters with H <sub>2</sub> O <sub>2</sub> using a $\text{Fe}^{3+}$ -Al <sub>2</sub> O <sub>3</sub> catalyst. Water Science and Technology, 2010, 61, 1631-1636.	1.2	30
89	Integrated CWPO and Biological Treatment for the Removal of 4-Chlorophenol From Water. Separation Science and Technology, 2010, 45, 1595-1602.	1.3	23
90	Anaerobic biodegradation of 2,4,6-trichlorophenol by methanogenic granular sludge: role of co-substrates and methanogenic inhibition. Water Science and Technology, 2009, 59, 1449-1456.	1.2	9

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91	Unstructured kinetic model for reuterin and 1,3-propanediol production by <i>Lactobacillus reuteri</i> from glycerol/glucose cofermentation. <i>Journal of Chemical Technology and Biotechnology</i> , 2009, 84, 675-680.	1.6	17
92	Hydrodechlorination of 4-chlorophenol in water with formic acid using a Pd/activated carbon catalyst. <i>Journal of Hazardous Materials</i> , 2009, 161, 842-847.	6.5	52
93	Cometabolic biodegradation of 4-chlorophenol by sequencing batch reactors at different temperatures. <i>Bioresource Technology</i> , 2009, 100, 4572-4578.	4.8	83
94	Kinetics of 4-Chlorophenol Hydrodechlorination with Alumina and Activated Carbon-Supported Pd and Rh Catalysts. <i>Industrial &amp; Engineering Chemistry Research</i> , 2009, 48, 3351-3358.	1.8	64
95	Comparison of UASB and EGSB performance on the anaerobic biodegradation of 2,4-dichlorophenol. <i>Chemosphere</i> , 2009, 76, 1192-1198.	4.2	58
96	Semicontinuous Fenton oxidation of phenol in aqueous solution. A kinetic study. <i>Water Research</i> , 2009, 43, 4063-4069.	5.3	74
97	An overview of the application of Fenton oxidation to industrial wastewaters treatment. <i>Journal of Chemical Technology and Biotechnology</i> , 2008, 83, 1323-1338.	1.6	546
98	Hydrodechlorination of alachlor in water using Pd, Ni and Cu catalysts supported on activated carbon. <i>Applied Catalysis B: Environmental</i> , 2008, 78, 259-266.	10.8	45
99	Kinetics of the Hydrodechlorination of 4-Chlorophenol in Water Using Pd, Pt, and Rh/Al <sub>2</sub> O <sub>3</sub> Catalysts. <i>Industrial &amp; Engineering Chemistry Research</i> , 2008, 47, 3840-3846.	1.8	113
100	Detoxification of Kraft pulp ECF bleaching effluents by catalytic hydrotreatment. <i>Water Research</i> , 2007, 41, 915-923.	5.3	17
101	Hydrogenation of phenol in aqueous phase with palladium on activated carbon catalysts. <i>Chemical Engineering Journal</i> , 2007, 131, 65-71.	6.6	95
102	A kinetic study of reuterin production by <i>Lactobacillus reuteri</i> PRO 137 in resting cells. <i>Biochemical Engineering Journal</i> , 2007, 35, 218-225.	1.8	21
103	Application of Fenton oxidation to cosmetic wastewaters treatment. <i>Journal of Hazardous Materials</i> , 2007, 143, 128-134.	6.5	233
104	Wet air oxidation of phenol at mild conditions with a Fe/activated carbon catalyst. <i>Applied Catalysis B: Environmental</i> , 2006, 62, 115-120.	10.8	62
105	Catalytic wet peroxide oxidation of phenol with a Fe/active carbon catalyst. <i>Applied Catalysis B: Environmental</i> , 2006, 65, 261-268.	10.8	290
106	Hydrodechlorination of 4-chlorophenol in aqueous phase using Pd/AC catalysts prepared with modified active carbon supports. <i>Applied Catalysis B: Environmental</i> , 2006, 67, 68-76.	10.8	105
107	Reaction pathway of the catalytic wet air oxidation of phenol with a Fe/activated carbon catalyst. <i>Applied Catalysis B: Environmental</i> , 2006, 67, 206-216.	10.8	62
108	Chemical Pathway and Kinetics of Phenol Oxidation by Fenton's Reagent. <i>Environmental Science &amp; Technology</i> , 2005, 39, 9295-9302.	4.6	545

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109	Effects of Support Surface Composition on the Activity and Selectivity of Pd/C Catalysts in Aqueous-Phase Hydrodechlorination Reactions. <i>Industrial &amp; Engineering Chemistry Research</i> , 2005, 44, 6661-6667.	1.8	65
110	Treatment of chlorophenols-bearing wastewaters through hydrodechlorination using Pd/activated carbon catalysts. <i>Carbon</i> , 2004, 42, 1377-1381.	5.4	98
111	Purification and characterization of an extracellular tributyrin esterase produced by a cheese isolate, <i>Micrococcus</i> sp. INIA 528. <i>International Dairy Journal</i> , 2004, 14, 135-142.	1.5	15
112	Volatile Fraction of Ewe's Milk Semi-Hard Cheese Manufactured with and without the Addition of a Cysteine Proteinase. <i>Food Science and Technology International</i> , 2001, 7, 131-139.	1.1	19
113	Modeling the Influence of pH, Temperature and Culture Medium Composition on the Kinetics of Growth and Cysteine Proteinase Production by <i>Micrococcus</i> sp. INIA 528 in Batch Culture. <i>Food Science and Technology International</i> , 2001, 7, 49-57.	1.1	0
114	Modeling the Influence of pH, Temperature and Culture Medium Composition on the Kinetics of Growth and Cysteine Proteinase Production by <i>Micrococcus</i> sp. INIA 528 in Batch Culture. <i>Food Science and Technology International</i> , 2001, 7, 49-57.	1.1	0
115	Volatile Fraction of Ewes Milk Semi-Hard Cheese Manufactured. <i>Food Science and Technology International</i> , 2001, 7, 131-139.	1.1	0
116	Viscosity of guar gum and xanthan/guar gum mixture solutions. <i>Journal of the Science of Food and Agriculture</i> , 2000, 80, 1722-1727.	1.7	163
117	Purification and properties of two intracellular aminopeptidases produced by <i>Brevibacterium linens</i> SR3. <i>International Dairy Journal</i> , 2000, 10, 241-248.	1.5	16
118	Purification and Characterization of Three Extracellular Proteinases Produced by <i>Pseudomonas fluorescens</i> INIA 745, an Isolate from Ewe's Milk. <i>Journal of Food Protection</i> , 1999, 62, 543-546.	0.8	7
119	The Effect of the Cysteine Proteinase from <i>Micrococcus</i> sp. INIA 528 on the Ripening Process of Manchego Cheese. <i>Enzyme and Microbial Technology</i> , 1998, 22, 391-396.	1.6	14
120	Effect of the cysteine proteinase from <i>Micrococcus</i> sp. INIA 528 on the ripening process of Hispanico cheese. <i>Journal of Dairy Research</i> , 1998, 65, 621-630.	0.7	7
121	Effect of pH, temperature and culture medium composition on the production of an extracellular cysteine proteinase by <i>Micrococcus</i> sp. INIA 528. <i>Journal of Applied Microbiology</i> , 1997, 82, 81-86.	1.4	9
122	Purification and characterization of an extracellular cysteine proteinase produced by <i>Micrococcus</i> sp. INIA 528. <i>Journal of Applied Bacteriology</i> , 1996, 81, 27-34.	1.1	24
123	Xanthan Precipitation from Solutions and Fermentation Broths. <i>Separation Science and Technology</i> , 1993, 28, 1303-1313.	1.3	34