

Davide Pinelli

List of Publications by Year in descending order

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59
papers

1,603
citations

236612

25
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315357

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59
docs citations

59
times ranked

1507
citing authors

#	ARTICLE	IF	CITATIONS
1	Surface structure and reactivity of V ₂ O ₅ /TiO ₂ catalysts prepared by solid-state reaction 1. Formation of a VIV interacting layer. <i>Journal of Catalysis</i> , 1991, 130, 220-237.	3.1	115
2	Bioremediation of a soil contaminated by hydrocarbon mixtures: the residual concentration problem. <i>Chemosphere</i> , 2000, 41, 1115-1123.	4.2	115
3	Olive mill wastewater valorisation through phenolic compounds adsorption in a continuous flow column. <i>Chemical Engineering Journal</i> , 2016, 283, 293-303.	6.6	84
4	Volatile fatty acids recovery from the effluent of an acidogenic digestion process fed with grape pomace by adsorption on ion exchange resins. <i>Chemical Engineering Journal</i> , 2016, 306, 629-639.	6.6	73
5	Surface structure and reactivity of V ₂ O ₅ /TiO ₂ catalysts prepared by solid-state reaction 2. Nature of the active phase formed during o-xylene oxidation. <i>Journal of Catalysis</i> , 1991, 130, 238-256.	3.1	67
6	Effects of the active phase-support interaction in vanadium oxide on TiO ₂ catalysts for o-xylene oxidation. <i>Journal of Molecular Catalysis</i> , 1990, 59, 221-231.	1.2	49
7	Batch and Continuous Flow Adsorption of Phenolic Compounds from Olive Mill Wastewater: A Comparison between Nonionic and Ion Exchange Resins. <i>International Journal of Chemical Engineering</i> , 2016, 2016, 1-13.	1.4	46
8	SOLIDS DISTRIBUTION IN STIRRED SLURRY REACTORS: INFLUENCE OF SOME MIXER CONFIGURATIONS AND LIMITS TO THE APPLICABILITY OF A SIMPLE MODEL FOR PREDICTIONS. <i>Chemical Engineering Communications</i> , 2001, 188, 91-107.	1.5	43
9	Synthesis of phthalic and maleic anhydrides from n-pentane. 1. Kinetic analysis of the reaction network. <i>Industrial & Engineering Chemistry Research</i> , 1989, 28, 400-406.	1.8	42
10	Chloroform degradation by butane-grown cells of <i>Rhodococcus aetherovorans</i> BCP1. <i>Applied Microbiology and Biotechnology</i> , 2006, 73, 421-428.	1.7	40
11	A Pilot-Scale Study of Alkali-Catalyzed Sunflower Oil Transesterification with Static Mixing and with Mechanical Agitation. <i>Energy & Fuels</i> , 2008, 22, 1493-1501.	2.5	40
12	Valorisation of olive mill wastewater by phenolic compounds adsorption: Development and application of a procedure for adsorbent selection. <i>Chemical Engineering Journal</i> , 2019, 360, 124-138.	6.6	39
13	A kinetic study of chlorinated solvent cometabolic biodegradation by propane-grown <i>Rhodococcus</i> sp. PB1. <i>Biochemical Engineering Journal</i> , 2008, 42, 139-147.	1.8	38
14	Long-term aerobic cometabolism of a chlorinated solvent mixture by vinyl chloride-, methane- and propane-utilizing biomasses. <i>Journal of Hazardous Materials</i> , 2006, 138, 29-39.	6.5	37
15	Mixing time in high aspect ratio vessels stirred with multiple impellers. <i>Chemical Engineering Science</i> , 2013, 101, 712-720.	1.9	37
16	Scale-up criteria for the solids distribution in slurry reactors stirred with multiple impellers. <i>Chemical Engineering Science</i> , 2003, 58, 5363-5372.	1.9	35
17	A kinetic study of biohydrogen production from glucose, molasses and cheese whey by suspended and attached cells of <i>Thermotoga neapolitana</i> . <i>Bioresource Technology</i> , 2013, 147, 553-561.	4.8	32
18	Some Features of a Novel Gas Dispersion Impeller in a Dual-Impeller Configuration. <i>Chemical Engineering Research and Design</i> , 2003, 81, 448-454.	2.7	31

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19	Dispersion coefficients and settling velocities of solids in slurry vessels stirred with different types of multiple impellers. <i>Chemical Engineering Science</i> , 2004, 59, 3081-3089.	1.9	31
20	Aerobic/anaerobic/aerobic sequenced biodegradation of a mixture of chlorinated ethenes, ethanes and methanes in batch bioreactors. <i>Bioresource Technology</i> , 2013, 128, 479-486.	4.8	30
21	Succinic acid production from cheese whey by biofilms of <i>Actinobacillus succinogenes</i> : packed bed bioreactor tests. <i>Journal of Chemical Technology and Biotechnology</i> , 2018, 93, 246-256.	1.6	30
22	Optimization of Mechanical Agitation and Evaluation of the Mass-Transfer Resistance in the Oil Transesterification Reaction for Biodiesel Production. <i>Industrial & Engineering Chemistry Research</i> , 2009, 48, 7540-7549.	1.8	29
23	Production of l(+) and d(̂) lactic acid isomers by <i>Lactobacillus casei</i> subsp. <i>casei</i> DSM 20011 and <i>Lactobacillus coryniformis</i> subsp. <i>torquens</i> DSM 20004 in continuous fermentation. <i>Journal of Bioscience and Bioengineering</i> , 1996, 81, 548-552.	0.9	27
24	Aerobic cometabolism of chloroform by butane-grown microorganisms: long-term monitoring of depletion rates and isolation of a high-performing strain. <i>Biodegradation</i> , 2005, 16, 147-158.	1.5	27
25	Trichloroethylene aerobic cometabolism by suspended and immobilized butane-growing microbial consortia: A kinetic study. <i>Bioresource Technology</i> , 2013, 144, 529-538.	4.8	26
26	FTIR and flow reactor studies on heterogeneously catalyzed gas-phase ammoxidation of cyclohexanone. <i>Journal of Molecular Catalysis</i> , 1992, 71, 111-127.	1.2	25
27	Assessment of kinetic models for the production of l- and d-lactic acid isomers by <i>Lactobacillus casei</i> DMS 20011 and <i>Lactobacillus coryniformis</i> DMS 20004 in continuous fermentation. <i>Journal of Bioscience and Bioengineering</i> , 1997, 83, 209-212.	0.9	25
28	Analysis of the Fluid Dynamic Behavior of the Liquid and Gas Phases in Reactors Stirred with Multiple Hydrofoil Impellers. <i>Industrial & Engineering Chemistry Research</i> , 2000, 39, 3202-3211.	1.8	23
29	Continuous flow adsorption of phenolic compounds from olive mill wastewater with resin XAD16N: life cycle assessment, cost-benefit analysis and process optimization. <i>Journal of Chemical Technology and Biotechnology</i> , 2019, 94, 1968-1981.	1.6	22
30	Effect of oxygen mass transfer rate on the production of 2,3-butanediol from glucose and agro-industrial byproducts by <i>Bacillus licheniformis</i> ATCC9789. <i>Biotechnology for Biofuels</i> , 2018, 11, 145.	6.2	21
31	Nature of active sites in catalytic ammoxidation of cyclohexanone to the corresponding oxime on amorphous silica: E.P.R. investigations. <i>Catalysis Letters</i> , 1992, 13, 21-26.	1.4	20
32	Solids Settling Velocity and Distribution in Slurry Reactors with Dilute Pseudoplastic Suspensions. <i>Industrial & Engineering Chemistry Research</i> , 2001, 40, 4456-4462.	1.8	20
33	Chloroform aerobic cometabolism by butane-utilizing bacteria in bioaugmented and non-bioaugmented soil/groundwater microcosms. <i>Process Biochemistry</i> , 2007, 42, 1218-1228.	1.8	19
34	Application of the growth substrate pulsed feeding technique to a process of chloroform aerobic cometabolism in a continuous-flow sand-filled reactor. <i>Process Biochemistry</i> , 2012, 47, 1656-1664.	1.8	19
35	Chloroform aerobic cometabolism by butane-growing <i>Rhodococcus aetherovorans</i> BCP1 in continuous-flow biofilm reactors. <i>Bioprocess and Biosystems Engineering</i> , 2012, 35, 667-681.	1.7	19
36	Synthesis of cyclohexanone oxime via ammoxidation with molecular oxygen: The reaction network. <i>Journal of Molecular Catalysis</i> , 1991, 69, 171-190.	1.2	18

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37	Dispersion coefficient and settling velocity of the solids in agitated slurry reactors stirred with multiple rushton turbines. <i>Chemical Engineering Science</i> , 2002, 57, 1877-1884.	1.9	18
38	1,1,2,2-Tetrachloroethane aerobic cometabolic biodegradation in slurry and soil-free bioreactors: A kinetic study. <i>Biochemical Engineering Journal</i> , 2010, 52, 55-64.	1.8	18
39	Development of an attached-growth process for the on-site bioremediation of an aquifer polluted by chlorinated solvents. <i>Biodegradation</i> , 2014, 25, 337-350.	1.5	17
40	Aerobic cometabolism of 1,1,2,2-tetrachloroethane by <i>Rhodococcus aetherivorans</i> TPA grown on propane: kinetic study and bioreactor configuration analysis. <i>Journal of Chemical Technology and Biotechnology</i> , 2018, 93, 155-165.	1.6	14
41	Analysis of the Gas Behavior in Sparged Reactors Stirred with Multiple Rushton Turbines: A Tentative Model Validation and Scale-up. <i>Industrial & Engineering Chemistry Research</i> , 1998, 37, 1528-1535.	1.8	13
42	Regeneration and modelling of a phosphorous removal and recovery hybrid ion exchange resin after long term operation with municipal wastewater. <i>Chemosphere</i> , 2022, 286, 131581.	4.2	13
43	Silica as catalyst for cyclohexanone ammoximation with molecular oxygen: a preliminary approach to the kinetic analysis. <i>Chemical Engineering Science</i> , 1992, 47, 2641-2646.	1.9	11
44	Growth of Chlorinated Solvent-Degrading Consortia in Fed-Batch Bioreactors and Development of a Double-Substrate High-Performing Microbial Inoculum. <i>Engineering in Life Sciences</i> , 2007, 7, 217-228.	2.0	11
45	Gas Flow Behavior in a Two-Phase Reactor Stirred with Triple Turbines. <i>Chemical Engineering and Technology</i> , 2004, 27, 304-309.	0.9	10
46	The role of small bubbles in gas-liquid mass transfer in stirred vessels and assessment of a two-fraction model for noncoalescent or moderately viscous liquids. <i>Chemical Engineering Science</i> , 2007, 62, 3767-3776.	1.9	10
47	Ti-silicalite as catalyst for gas-phase ammoximation of cyclohexanone with molecular oxygen. <i>Catalysis Letters</i> , 1991, 11, 285-294.	1.4	9
48	Aerobic cometabolism of 1,1,2,2-TeCA by a propane-growing microbial consortium (C 2): Diversity of alkane monooxygenase genes and design of an on-site bioremediation process. <i>International Biodeterioration and Biodegradation</i> , 2017, 119, 649-660.	1.9	9
49	A phenomenological model for the gas phase flow in high-aspect-ratio stirred vessels: the role of small bubbles in non-coalescent and moderately viscous liquids. <i>Chemical Engineering Science</i> , 2005, 60, 2239-2252.	1.9	8
50	Diagnosis of Solid Distribution in Vessels Stirred with Multiple PBTs and Comparison of Two Modelling Approaches. <i>Canadian Journal of Chemical Engineering</i> , 2002, 80, 1-9.	0.9	8
51	Functionalization of silica through thiol-yne radical chemistry: a catalytic system based on gold nanoparticles supported on amino-sulfide-branched silica. <i>RSC Advances</i> , 2016, 6, 25780-25788.	1.7	8
52	Numerical Parameters Estimation in Models of Pollutant Transport with Chemical Reaction. <i>International Federation for Information Processing</i> , 2013, , 547-556.	0.4	6
53	Comparative Preliminary Evaluation of 2 In-Stream Water Treatment Technologies for the Agricultural Reuse of Drainage Water in the Nile Delta. <i>Integrated Environmental Assessment and Management</i> , 2020, 16, 920-933.	1.6	5
54	Development of a continuous-flow anaerobic co-digestion process of olive mill wastewater and municipal sewage sludge. <i>Journal of Chemical Technology and Biotechnology</i> , 2021, 96, 532-543.	1.6	5

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55	Solids Separation at the Exit of a Continuous-Flow Slurry Reactor Stirred with Multiple Axial Impellers. <i>Chemical Engineering Research and Design</i> , 1997, 75, 284-287.	2.7	4
56	Chloroform aerobic cometabolic biodegradation in a continuous-flow reactor: Model calibration by means of the Gauss-Newton method. <i>Canadian Journal of Chemical Engineering</i> , 2019, 97, 1771-1784.	0.9	4
57	Parameter Estimation Algorithms for Kinetic Modeling from Noisy Data. <i>IFIP Advances in Information and Communication Technology</i> , 2016, , 517-527.	0.5	4
58	Silica as an Ammoxidation Catalyst for the Production of Cyclohexanone Oxime. <i>Studies in Surface Science and Catalysis</i> , 1993, 75, 2011-2014.	1.5	3
59	Mono- and poly-nuclear species of vanadium on the TiO ₂ (anatase) surface. <i>Materials Chemistry and Physics</i> , 1991, 29, 271-285.	2.0	1