

# Piero M Armenante

## List of Publications by Citations

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46  
papers

1,070  
citations

20  
h-index

32  
g-index

46  
ext. papers

1,182  
ext. citations

4.2  
avg, IF

4.23  
L-index

#	Paper	IF	Citations
46	Mass transfer to microparticles in agitated systems. <i>Chemical Engineering Science</i> , <b>1989</b> , 44, 2781-2796	4.4	151
45	Effect of low off-bottom impeller clearance on the minimum agitation speed for complete suspension of solids in stirred tanks. <i>Chemical Engineering Science</i> , <b>1998</b> , 53, 1757-1775	4.4	91
44	Velocity profiles in a closed, unbaffled vessel: comparison between experimental LDV data and numerical CFD predictions. <i>Chemical Engineering Science</i> , <b>1997</b> , 52, 3483-3492	4.4	74
43	Hydrodynamic investigation of USP dissolution test apparatus II. <i>Journal of Pharmaceutical Sciences</i> , <b>2007</b> , 96, 2327-49	3.9	61
42	Determination of correlations to predict the minimum agitation speed for complete solid suspension in agitated vessels. <i>Canadian Journal of Chemical Engineering</i> , <b>1998</b> , 76, 413-419	2.3	59
41	Velocity profiles in a baffled vessel with single or double pitched-blade turbines. <i>AIChE Journal</i> , <b>1996</b> , 42, 42-54	3.6	55
40	Velocity profiles and shear strain rate variability in the USP Dissolution Testing Apparatus 2 at different impeller agitation speeds. <i>International Journal of Pharmaceutics</i> , <b>2011</b> , 403, 1-14	6.5	38
39	Hydrodynamic, mass transfer, and dissolution effects induced by tablet location during dissolution testing. <i>Journal of Pharmaceutical Sciences</i> , <b>2009</b> , 98, 1511-31	3.9	37
38	Effect of yeast extract on growth kinetics during aerobic biodegradation of chlorobenzoic acids. <i>Biotechnology and Bioengineering</i> , <b>1995</b> , 47, 227-33	4.9	37
37	Power Consumption in Agitated Vessels Provided with Multiple-Disk Turbines. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>1998</b> , 37, 284-291	3.9	33
36	Process optimization and modeling of trichlorophenol degradation by <i>Phanerochaete chrysosporium</i> . <i>Biotechnology and Bioengineering</i> , <b>1995</b> , 46, 599-609	4.9	33
35	Determination of the minimum agitation speed to attain the just dispersed state in solid-liquid and liquid-liquid reactors provided with multiple impellers. <i>Chemical Engineering Science</i> , <b>1992</b> , 47, 2865-2876	4.4	32
34	Experimentally-validated micromixing-based CFD model for fed-batch stirred-tank reactors. <i>AIChE Journal</i> , <b>2004</b> , 50, 566-577	3.6	31
33	Power Consumption in Stirred Tanks Provided with Multiple Pitched-Blade Turbines. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>1999</b> , 38, 2809-2816	3.9	31
32	Experimental determination of the minimum agitation speed for complete liquid-liquid dispersion in mechanically agitated vessels. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>1992</b> , 31, 1398-1406	3.9	28
31	Integrated anaerobic-aerobic process for the biodegradation of chlorinated aromatic compounds. <i>Environmental Progress</i> , <b>1992</b> , 11, 113-122		27
30	Experimental and computational determination of blend time in USP Dissolution Testing Apparatus II. <i>Journal of Pharmaceutical Sciences</i> , <b>2007</b> , 96, 3072-86	3.9	25

29	Velocity distribution and shear rate variability resulting from changes in the impeller location in the USP dissolution testing apparatus II. <i>Pharmaceutical Research</i> , <b>2008</b> , 25, 320-36	4.5	24
28	Effect of pH on the anaerobic dechlorination of chlorophenols in a defined medium. <i>Applied Microbiology and Biotechnology</i> , <b>1993</b> , 39, 772-777	5.7	23
27	Flow regimes and surface air entrainment in partially filled stirred vessels for different fill ratios. <i>Chemical Engineering Science</i> , <b>2012</b> , 81, 231-250	4.4	20
26	Characterization of Turbulent Properties in the EPA Baffled Flask for Dispersion Effectiveness Testing. <i>Journal of Environmental Engineering, ASCE</i> , <b>2016</b> , 142, 1-14	2	19
25	Hydrodynamic effects on mixing and competitive reactions in laboratory reactors. <i>Chemical Engineering Science</i> , <b>2005</b> , 60, 2341-2354	4.4	13
24	Experimental and computational determination of the hydrodynamics of mini vessel dissolution testing systems. <i>International Journal of Pharmaceutics</i> , <b>2016</b> , 510, 336-49	6.5	12
23	Solid-Liquid Mixing 543-584		12
22	Design of Continuous Sterilization Systems for Fermentation Media Containing Suspended Solids. <i>Biotechnology Progress</i> , <b>1990</b> , 6, 292-306	2.8	12
21	A novel off-center paddle impeller (OPI) dissolution testing system for reproducible dissolution testing of solid dosage forms. <i>Journal of Pharmaceutical Sciences</i> , <b>2012</b> , 101, 746-60	3.9	11
20	Dissolution of prednisone tablets in the presence of an arch-shaped fiber optic probe in a USP dissolution testing apparatus 2. <i>Journal of Pharmaceutical Sciences</i> , <b>2013</b> , 102, 2718-29	3.9	11
19	Contrasting adsorption exhibited by lignite-based activated carbons. <i>Journal of Chemical Technology and Biotechnology</i> , <b>1995</b> , 64, 261-267	3.5	10
18	Power Dissipation and Power Number Correlations for a Retreat-Blade Impeller under Different Baffling Conditions. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2017</b> , 56, 10123-10133	3.9	8
17	Complete design analysis of a continuous sterilizer for fermentation media containing suspended solids. <i>Biotechnology and Bioengineering</i> , <b>1993</b> , 41, 900-13	4.9	7
16	Determination of the just-suspended speed, $N_{js}$ , in stirred tanks using electrical resistance tomography (ERT). <i>AIChE Journal</i> , <b>2021</b> , 67, e17354	3.6	7
15	Computational hydrodynamic comparison of a mini vessel and a USP 2 dissolution testing system to predict the dynamic operating conditions for similarity of dissolution performance. <i>International Journal of Pharmaceutics</i> , <b>2018</b> , 539, 112-130	6.5	6
14	Dehalogenation of dichloroethene in a contaminated soil: fatty acids and alcohols as electron donors and an apparent requirement for tetrachloroethene. <i>Applied Microbiology and Biotechnology</i> , <b>2001</b> , 55, 239-47	5.7	6
13	Optimization of optical transparency of personal care products using the refractive index matching method. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2021</b> , 610, 125595	5.1	5
12	Effect of a Fiber-Optic Probe on the Dissolution of Salicylic Acid Tablets in USP Apparatus 2. <i>Dissolution Technologies</i> , <b>2013</b> , 20, 21-30	1.7	3

11	Experimental determination and computational prediction of the mixing efficiency of a simple, continuous, serpentine-channel microdevice. <i>Chemical Engineering Research and Design</i> , <b>2021</b> , 167, 303-317	5.5	3
10	Imaging method for the determination of the minimum agitation speed, Njs, for solids suspension in stirred vessels and reactors. <i>Chemical Engineering Science</i> , <b>2021</b> , 231, 116263	4.4	3
9	Experimental determination of the velocity distribution in USP Apparatus 1 (basket apparatus) using Particle Image Velocimetry (PIV). <i>International Journal of Pharmaceutics: X</i> , <b>2021</b> , 3, 100078	3.2	3
8	A Computational and Experimental Study of Mixing and Chemical Reaction in a Stirred Tank Reactor Equipped with a Down-pumping Hydrofoil Impeller using a Micro-Mixing-Based CFD Model <b>2000</b> , 61-68		2
7	Computational prediction of the just-suspended speed, N, in stirred vessels using the lattice Boltzmann method (LBM) coupled with a novel mathematical approach. <i>Chemical Engineering Science</i> , <b>2022</b> , 251, 117411	4.4	2
6	STERILIZATION PROCESSES IN THE PHARMACEUTICAL INDUSTRY <b>2019</b> , 311-379		1
5	The discharge of complex fluids through an orifice: A review. <i>Chemical Engineering Research and Design</i> , <b>2022</b> , 179, 346-364	5.5	1
4	Influence of basket mesh size on the hydrodynamics in the USP rotating basket dissolution testing Apparatus 1. <i>International Journal of Pharmaceutics</i> , <b>2021</b> , 607, 120976	6.5	1
3	Cetylpyridinium Trichlorostannate: Synthesis, Antimicrobial Properties, and Controlled-Release Properties via Electrical Resistance Tomography.. <i>ACS Omega</i> , <b>2021</b> , 6, 35433-35441	3.9	1
2	Power Number and Hydrodynamic Characterization of a Stirred Vessel Equipped with a Retreat-Blade Impeller and Different Types of Pharmaceutical Single Baffles. <i>Chemical Engineering Science</i> , <b>2022</b> , 117725	4.4	1
1	Environmental Emergencies and Emergency Preparedness	335-365	