

# Andrzej B Jarzebski

## List of Publications by Year in descending order

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68  
papers

2,467  
citations

218592

26  
h-index

197736

49  
g-index

69  
all docs

69  
docs citations

69  
times ranked

2846  
citing authors

#	ARTICLE	IF	CITATIONS
1	A benchmark study on the thermal conductivity of nanofluids. <i>Journal of Applied Physics</i> , 2009, 106, .	1.1	897
2	Supported hydrogensulfate ionic liquid catalysis in Baeyer-Villiger reaction. <i>Applied Catalysis A: General</i> , 2009, 366, 22-28.	2.2	127
3	Laccase immobilization on mesostructured cellular foams affords preparations with ultra high activity. <i>Process Biochemistry</i> , 2009, 44, 191-198.	1.8	87
4	Application and properties of siliceous mesostructured cellular foams as enzymes carriers to obtain efficient biocatalysts. <i>Microporous and Mesoporous Materials</i> , 2007, 99, 167-175.	2.2	71
5	Leloir Glycosyltransferases in Applied Biocatalysis: A Multidisciplinary Approach. <i>International Journal of Molecular Sciences</i> , 2019, 20, 5263.	1.8	63
6	Very stable silica-gel-bound laccase biocatalysts for the selective oxidation in continuous systems. <i>Bioresource Technology</i> , 2010, 101, 2076-2083.	4.8	54
7	Surface Fractal Characteristics of Silica Aerogels. <i>Langmuir</i> , 1997, 13, 1280-1285.	1.6	52
8	Covalent immobilization of trypsin on to siliceous mesostructured cellular foams to obtain effective biocatalysts. <i>Catalysis Today</i> , 2007, 124, 2-10.	2.2	51
9	Synthesis and Textural Characterization of Mesoporous and Meso-/Macroporous Silica Monoliths Obtained by Spinodal Decomposition. <i>Inorganics</i> , 2016, 4, 9.	1.2	50
10	Immobilization of invertase on silica monoliths with hierarchical pore structure to obtain continuous flow enzymatic microreactors of high performance. <i>Microporous and Mesoporous Materials</i> , 2013, 170, 75-82.	2.2	49
11	Effective Inorganic Hybrid Adsorbents of Water Vapor by the Sol-Gel Method. <i>Chemistry of Materials</i> , 1997, 9, 2486-2490.	3.2	45
12	Modelling of oscillatory behaviour in continuous ethanol fermentation. <i>Biotechnology Letters</i> , 1992, 14, 137-142.	1.1	43
13	Immobilization of Invertase on Mesoporous Silicas to Obtain Hyper Active Biocatalysts. <i>Topics in Catalysis</i> , 2009, 52, 1030-1036.	1.3	43
14	Low back-pressure hierarchically structured multichannel microfluidic bioreactors for rapid protein digestion – Proof of concept. <i>Chemical Engineering Journal</i> , 2016, 287, 148-154.	6.6	40
15	FTIR Spectroscopic Study of Titanium-Containing Mesoporous Silicate Materials. <i>Langmuir</i> , 2005, 21, 10545-10554.	1.6	38
16	Hydroxynitrile lyases covalently immobilized in continuous flow microreactors. <i>Catalysis Science and Technology</i> , 2019, 9, 1189-1200.	2.1	38
17	MsACT in siliceous monolithic microreactors enables quantitative ester synthesis in water. <i>Catalysis Science and Technology</i> , 2016, 6, 4882-4888.	2.1	37
18	Thermostability and esterification activity of <i>Mucor javanicus</i> lipase entrapped in silica aerogel matrix and in organic solvents. <i>Biotechnology Letters</i> , 1997, 11, 9-11.	0.5	35

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19	Potentials and prospects for application of supercritical fluid technology in bioprocessing. <i>Process Biochemistry</i> , 1995, 30, 343-352.	1.8	34
20	Drag and mass transfer in multiple drop slow motion in a power law fluid. <i>Chemical Engineering Science</i> , 1986, 41, 2569-2573.	1.9	33
21	Covalently immobilized lipase on aminoalkyl-, carboxy- and hydroxy-multi-wall carbon nanotubes in the enantioselective synthesis of Solketal esters. <i>Enzyme and Microbial Technology</i> , 2016, 87-88, 61-69.	1.6	33
22	Synthesis and structure-activity relationships of amides of amphotericin B.. <i>Journal of Antibiotics</i> , 1982, 35, 220-229.	1.0	31
23	Rapid continuous microwave-assisted synthesis of silver nanoparticles to achieve very high productivity and full yield: from mechanistic study to optimal fabrication strategy. <i>Journal of Nanoparticle Research</i> , 2015, 17, 27.	0.8	31
24	Alkaline lipase from <i>Pseudomonas fluorescens</i> non-covalently immobilised on pristine versus oxidised multi-wall carbon nanotubes as efficient and recyclable catalytic systems in the synthesis of Solketal esters. <i>Enzyme and Microbial Technology</i> , 2013, 53, 263-270.	1.6	30
25	Silica-supported chlorometallate (<sc>iii</sc>) ionic liquids as recyclable catalysts for Diels-Alder reaction under solventless conditions. <i>Catalysis Science and Technology</i> , 2016, 6, 8129-8137.	2.1	30
26	Stable Immobilization of Enzymes in a Macro- and Mesoporous Silica Monolith. <i>ACS Omega</i> , 2019, 4, 7795-7806.	1.6	30
27	Supported ionic liquid phase catalysis for aerobic oxidation of primary alcohols. <i>Applied Catalysis A: General</i> , 2010, 389, 179-185.	2.2	26
28	Fabrication of silver nanoparticles in a continuous flow, low temperature microwave-assisted polyol process. <i>Journal of Nanoparticle Research</i> , 2011, 13, 2533-2541.	0.8	21
29	A novel hierarchically structured siliceous packing to boost the performance of rotating bed enzymatic reactors. <i>Chemical Engineering Journal</i> , 2017, 315, 18-24.	6.6	21
30	The synthesis of amides of polyene macrolide antibiotics.. <i>Journal of Antibiotics</i> , 1980, 33, 103-104.	1.0	20
31	Preparation effects on zirconia aerogel morphology. <i>Journal of Non-Crystalline Solids</i> , 1998, 225, 115-119.	1.5	20
32	DRAG AND MASS TRANSFER IN SLOW NON-NEWTONIAN FLOWS OVER AN ENSEMBLE OF NEWTONIAN SPHERICAL DROPS OR BUBBLES. <i>Chemical Engineering Communications</i> , 1987, 49, 235-246.	1.5	19
33	Screening of porous and cellular materials for covalent immobilisation of <i>Agaricus bisporus</i> tyrosinase. <i>Biotechnology and Bioprocess Engineering</i> , 2011, 16, 180-189.	1.4	19
34	Immobilization of an integral membrane protein for biotechnological phenylacetaldehyde production. <i>Journal of Biotechnology</i> , 2014, 174, 7-13.	1.9	19
35	Drag and mass transfer in a creeping flow of a carreau fluid over drops or bubbles. <i>Canadian Journal of Chemical Engineering</i> , 1987, 65, 680-684.	0.9	17
36	Two-component aerogel adsorbents of water vapour. <i>Journal of Non-Crystalline Solids</i> , 1998, 225, 184-187.	1.5	14

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37	Anatomical distribution of lipids and sterols in <i>Macoma balthica</i> (L.). <i>Comparative Biochemistry and Physiology Part B: Comparative Biochemistry</i> , 1986, 85, 135-137.	0.2	13
38	Selective water sorbents for multiple applications, 8. sorption properties of CaCl <sub>2</sub> ·SiO <sub>2</sub> sol-gel composites. <i>Reaction Kinetics and Catalysis Letters</i> , 1999, 66, 113-120.	0.6	13
39	Batch and in-flow kinetic resolution of racemic 1-(N-acylamino)alkylphosphonic and 1-(N-acylamino)alkylphosphinic acids and their esters using immobilized penicillin G acylase. <i>Tetrahedron: Asymmetry</i> , 2017, 28, 146-152.	1.8	13
40	Rotating bed reactor packed with heterofunctional structured silica-supported lipase. Developing an effective system for the organic solvent and aqueous phase reactions. <i>Microporous and Mesoporous Materials</i> , 2021, 312, 110789.	2.2	13
41	Preparation and Surface Properties of Low-Density Gels Synthesized Using Prepolymerized Silica Precursors. <i>Langmuir</i> , 2004, 20, 10389-10393.	1.6	12
42	Zero latent roots of the coefficient matrix in the equation of multichannel exchangers. <i>International Journal of Heat and Mass Transfer</i> , 1974, 17, 1116-1118.	2.5	11
43	Fabrication and performance of monolithic continuous-flow silica microreactors. <i>Chemical Engineering Journal</i> , 2015, 282, 137-141.	6.6	11
44	Water Vapor Adsorption on the Sol-Gel Composites Prepared Using Ethyl Silicate 40 as a Silica Precursor. <i>Langmuir</i> , 2001, 17, 626-630.	1.6	10
45	Lipase Immobilized on MCFs as Biocatalysts for Kinetic and Dynamic Kinetic Resolution of sec-Alcohols. <i>Catalysts</i> , 2021, 11, 518.	1.6	10
46	A tentative physiological model of batch acetonobutylic fermentation. <i>Applied Microbiology and Biotechnology</i> , 1992, 37, 714-717.	1.7	9
47	A stable highly accurate ADI method for hyperbolic heat conduction equation. <i>Journal of Computational Physics</i> , 1986, 63, 236-239.	1.9	8
48	Transient mass and heat transfer from drops or bubbles in slow non-Newtonian flows. <i>Chemical Engineering Science</i> , 1986, 41, 2575-2578.	1.9	8
49	Effect of drying with supercritical carbon dioxide on enhancement and modification of polymeric catalysts' activity. <i>Chemical Engineering Science</i> , 1992, 47, 1321-1322.	1.9	8
50	Penicillin G acylase-mediated kinetic resolution of racemic 1-(N-acylamino)alkylphosphonic and 1-(N-acylamino)alkylphosphinic acids and their esters using immobilized penicillin G acylase. <i>Tetrahedron: Asymmetry</i> , 2017, 28, 146-152.	1.8	8
51	Engineering of continuous bienzymatic cascade process using monolithic microreactors for in flow synthesis of trehalose. <i>Chemical Engineering Journal</i> , 2022, 427, 131439.	6.6	8
52	Laccase Immobilisation on Mesostructured Silicas. <i>Chemical and Process Engineering - Inzynieria Chemiczna I Procesowa</i> , 2012, 33, 611-620.	0.7	6
53	Major sterols of bivalve molluscs from the inner puck bay, southern baltic. <i>Comparative Biochemistry and Physiology Part B: Comparative Biochemistry</i> , 1985, 81, 989-991.	0.2	5
54	4-Desmethylsterols from the marine bivalve <i>Macoma balthica</i> . <i>Lipids</i> , 1991, 26, 561-563.	0.7	5

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55	Effect of silica-type sol-gel carrier™s structure and morphology on a supported Ziegler-Natta catalyst for ethylene polymerization. <i>European Polymer Journal</i> , 2006, 42, 3085-3092.	2.6	5
56	Immobilization of the Highly Active UDP-Glucose Pyrophosphorylase From <i>Thermocrispum agreste</i> Provides a Highly Efficient Biocatalyst for the Production of UDP-Glucose. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020, 8, 740.	2.0	5
57	Catalytic Functionalized Structured Monolithic Micro-/Mesoreactors: Engineering, Properties, and Performance in Flow Synthesis: An Overview and Guidelines. <i>Frontiers in Chemical Engineering</i> , 2021, 3, .	1.3	5
58	Application of Klein's equation for description of viscosity of nanofluid. <i>Computer Aided Chemical Engineering</i> , 2009, 26, 955-960.	0.3	4
59	Immobilisation of tyrosinase on siliceous cellular foams affording highly effective and stable biocatalysts. <i>Chemical Papers</i> , 2015, 69, .	1.0	3
60	Engineering and Performance of Ruthenium Complexes Immobilized on Mesoporous Siliceous Materials as Racemization Catalysts. <i>Catalysts</i> , 2021, 11, 316.	1.6	3
61	Sterol composition of marine bivalves from the genus <i>Macoma</i> . <i>Comparative Biochemistry and Physiology Part B: Comparative Biochemistry</i> , 1990, 97, 81-82.	0.2	1
62	Structure of silica aerogels obtained from a single-step base catalyzed process boosted by fluorine anions. <i>Journal of Non-Crystalline Solids</i> , 1996, 204, 172-177.	1.5	1
63	Composite materials containing zeolitic layers deposited on the silica and silica/alumina porous monoliths. <i>Studies in Surface Science and Catalysis</i> , 2008, 174, 381-384.	1.5	1
64	Comments on some properties of the coefficient matrix of the differential equations for parallel-flow multichannel heat exchangers™. <i>International Journal of Heat and Mass Transfer</i> , 1984, 27, 951.	2.5	0
65	Seasonal changes in content and composition of sterols in the tissues of the bivalve <i>Macoma balthica</i> . <i>Comparative Biochemistry and Physiology Part B: Comparative Biochemistry</i> , 1989, 93, 711-713.	0.2	0
66	Determination of Ag <sup>+</sup> and Cu <sup>2+</sup> ions in mixture samples obtained in the microwave assisted polyol process by differential pulse anodic stripping voltammetry (DPASV) method. <i>Open Chemistry</i> , 2014, 13, .	1.0	0
67	Kinetics of Enantiomerically Enriched Synthesis of Solketal Esters Using Native and SBA-15 supported <i>P. Fluorescens</i> Lipase. <i>Chemical and Process Engineering - Inzynieria Chemiczna I Procesowa</i> , 2017, 38, 209-215.	0.7	0
68	Screening of lipase carriers for reactions in water, biphasic and pure organic solvent systems. <i>Acta Biochimica Polonica</i> , 2014, 61, 1-6.	0.3	0