

Rafal M Rakoczy

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

85
papers

834
citations

18
h-index

24
g-index

90
ext. papers

1,098
ext. citations

4.3
avg, IF

4.65
L-index

| # | Paper | IF | Citations |
|----|--|------|-----------|
| 85 | Chemical and magnetic functionalization of graphene oxide as a route to enhance its biocompatibility. <i>Nanoscale Research Letters</i> , 2014 , 9, 656 | 5 | 61 |
| 84 | Experimental study of bubble size distribution in a liquid column exposed to a rotating magnetic field. <i>Chemical Engineering and Processing: Process Intensification</i> , 2009 , 48, 1229-1240 | 3.7 | 42 |
| 83 | Survival of probiotic lactic acid bacteria immobilized in different forms of bacterial cellulose in simulated gastric juices and bile salt solution. <i>LWT - Food Science and Technology</i> , 2016 , 68, 322-328 | 5.4 | 40 |
| 82 | The application of magnetically modified bacterial cellulose for immobilization of laccase. <i>International Journal of Biological Macromolecules</i> , 2018 , 108, 462-470 | 7.9 | 39 |
| 81 | Modification of bacterial cellulose through exposure to the rotating magnetic field. <i>Carbohydrate Polymers</i> , 2015 , 133, 52-60 | 10.3 | 36 |
| 80 | Environmental Phage-Based Cocktail and Antibiotic Combination Effects on Biofilm in a Human Urine Model. <i>Microbial Drug Resistance</i> , 2021 , 27, 25-35 | 2.9 | 30 |
| 79 | Power consumption, mixing time, heat and mass transfer measurements for liquid vessels that are mixed using reciprocating multiplates agitators. <i>Chemical Engineering and Processing: Process Intensification</i> , 2007 , 46, 89-98 | 3.7 | 29 |
| 78 | Studies of a mixing process induced by a transverse rotating magnetic field. <i>Chemical Engineering Science</i> , 2011 , 66, 2298-2308 | 4.4 | 25 |
| 77 | Antibiotics Act with vB_AbaP_AGC01 Phage against in Human Heat-Inactivated Plasma Blood and Models. <i>International Journal of Molecular Sciences</i> , 2020 , 21, | 6.3 | 23 |
| 76 | Influence of transverse rotating magnetic field on enhancement of solid dissolution process. <i>AIChE Journal</i> , 2010 , 56, 1416-1433 | 3.6 | 22 |
| 75 | The influence of a ferrofluid in the presence of an external rotating magnetic field on the growth rate and cell metabolic activity of a wine yeast strain. <i>Biochemical Engineering Journal</i> , 2016 , 109, 43-50 | 4.2 | 21 |
| 74 | Enhancement of solid dissolution process under the influence of rotating magnetic field. <i>Chemical Engineering and Processing: Process Intensification</i> , 2010 , 49, 42-50 | 3.7 | 20 |
| 73 | Mixing energy investigations in a liquid vessel that is mixed by using a rotating magnetic field. <i>Chemical Engineering and Processing: Process Intensification</i> , 2013 , 66, 1-11 | 3.7 | 19 |
| 72 | Effects of a rotating magnetic field on gas-liquid mass transfer coefficient. <i>Chemical Engineering Journal</i> , 2017 , 327, 608-617 | 14.7 | 19 |
| 71 | Increased water content in bacterial cellulose synthesized under rotating magnetic fields. <i>Electromagnetic Biology and Medicine</i> , 2017 , 36, 192-201 | 2.2 | 19 |
| 70 | The entropy criterion for the homogenisation process in a multi-ribbon blender. <i>Chemical Engineering and Processing: Process Intensification</i> , 2006 , 45, 500-506 | 3.7 | 19 |
| 69 | The Effects of Rotating Magnetic Field on Growth Rate, Cell Metabolic Activity and Biofilm Formation by Staphylococcus Aureus and Escherichia Coli. <i>Journal of Magnetism</i> , 2013 , 18, 289-296 | 1.9 | 19 |

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| 68 | Wet and Dry Forms of Bacterial Cellulose Synthesized by Different Strains of <i>Gluconacetobacter xylinus</i> as Carriers for Yeast Immobilization. <i>Applied Biochemistry and Biotechnology</i> , 2016 , 180, 805-816 | 3.2 | 18 |
| 67 | Effects of 50 Hz rotating magnetic field on the viability of <i>Escherichia coli</i> and <i>Staphylococcus aureus</i> . <i>Electromagnetic Biology and Medicine</i> , 2014 , 33, 29-34 | 2.2 | 17 |
| 66 | The effect of rotating magnetic field on bioethanol production by yeast strain modified by ferrimagnetic nanoparticles. <i>Journal of Magnetism and Magnetic Materials</i> , 2019 , 473, 176-183 | 2.8 | 16 |
| 65 | Comparison density of maximal energy for mixing process using the same agitator in rotational and reciprocating movements. <i>Chemical Engineering and Processing: Process Intensification</i> , 2008 , 47, 1252-1260 | 3.7 | 15 |
| 64 | The study of influence of a rotating magnetic field on mixing efficiency. <i>Chemical Engineering and Processing: Process Intensification</i> , 2017 , 112, 1-8 | 3.7 | 14 |
| 63 | Effects of rotating magnetic field exposure on the functional parameters of different species of bacteria. <i>Electromagnetic Biology and Medicine</i> , 2015 , 34, 48-55 | 2.2 | 13 |
| 62 | The analysis of rotating magnetic field as a trigger of Gram-positive and Gram-negative bacteria growth. <i>Biochemical Engineering Journal</i> , 2019 , 141, 259-267 | 4.2 | 13 |
| 61 | Enhancing effect of 50Hz rotating magnetic field on induction of Shiga toxin-converting lambdoid prophages. <i>Microbial Pathogenesis</i> , 2017 , 109, 4-7 | 3.8 | 12 |
| 60 | The influence of rotating magnetic field on bio-catalytic dye degradation using the horseradish peroxidase. <i>Biochemical Engineering Journal</i> , 2019 , 147, 81-88 | 4.2 | 12 |
| 59 | Evaluation of usefulness of 2DCorr technique in assessing physicochemical properties of bacterial cellulose. <i>Carbohydrate Polymers</i> , 2017 , 161, 208-218 | 10.3 | 11 |
| 58 | Hydrodynamic studies in magnetically assisted external-loop airlift reactor. <i>Chemical Engineering Journal</i> , 2019 , 362, 298-309 | 14.7 | 10 |
| 57 | Application of Rotating Magnetic Fields Increase the Activity of Antimicrobials Against Wound Biofilm Pathogens. <i>Scientific Reports</i> , 2018 , 8, 167 | 4.9 | 10 |
| 56 | Functionalized Magnetic Bacterial Cellulose Beads as Carrier for Lecitase \square Ultra Immobilization. <i>Applied Biochemistry and Biotechnology</i> , 2019 , 187, 176-193 | 3.2 | 10 |
| 55 | The characterization of the residence time distribution in a magnetic mixer by means of the information entropy. <i>Chemical Engineering Science</i> , 2014 , 105, 191-197 | 4.4 | 10 |
| 54 | Study of Mixing Time in a Liquid Vessel with Rotating and Reciprocating Agitator. <i>Industrial & Engineering Chemistry Research</i> , 2013 , 52, 13818-13828 | 3.9 | 10 |
| 53 | Increased yield and selected properties of bacterial cellulose exposed to different modes of a rotating magnetic field. <i>Engineering in Life Sciences</i> , 2016 , 16, 483-493 | 3.4 | 8 |
| 52 | Effect of GO-Fe ₃ O ₄ and rotating magnetic field on cellular metabolic activity of mammalian cells. <i>Journal of Biomaterials Applications</i> , 2016 , 30, 1392-406 | 2.9 | 8 |
| 51 | The effects of power characteristics on the heat transfer process in various types of motionless mixing devices. <i>Chemical Engineering and Processing: Process Intensification</i> , 2011 , 50, 959-969 | 3.7 | 8 |

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| 50 | The expression and intranuclear distribution of nucleolin in HL-60 and K-562 cells after repeated, short-term exposition to rotating magnetic fields. <i>International Journal of Radiation Biology</i> , 2008 , 84, 752-60 | 2.9 | 8 |
| 49 | Time Dependent Influence of Rotating Magnetic Field on Bacterial Cellulose. <i>International Journal of Polymer Science</i> , 2016 , 2016, 1-13 | 2.4 | 8 |
| 48 | The covalent and non-covalent conjugation of graphene oxide with hydroxycamptothecin in hyperthermia for its anticancer activity. <i>Journal of Alloys and Compounds</i> , 2017 , 709, 112-124 | 5.7 | 7 |
| 47 | Biochemical and cellular properties of <i>Gluconacetobacter xylinus</i> cultures exposed to different modes of rotating magnetic field. <i>Polish Journal of Chemical Technology</i> , 2017 , 19, 107-114 | 1 | 7 |
| 46 | Transdermal Delivery Systems for Ibuprofen and Ibuprofen Modified with Amino Acids Alkyl Esters Based on Bacterial Cellulose. <i>International Journal of Molecular Sciences</i> , 2021 , 22, | 6.3 | 7 |
| 45 | Exposure to non-continuous rotating magnetic field induces metabolic strain-specific response of <i>Komagataeibacter xylinus</i> . <i>Biochemical Engineering Journal</i> , 2021 , 166, 107855 | 4.2 | 7 |
| 44 | Computational Fluid Dynamics and Experimental Studies of a New Mixing Element in a Static Mixer as a Heat Exchanger. <i>Chemical and Process Engineering - Inzynieria Chemiczna I Procesowa</i> , 2015 , 36, 59-72 | | 6 |
| 43 | Kinetic equation of grinding process in mixing of granular material using probability density functions, transient operators and informational entropy. <i>Chemical Engineering and Processing: Process Intensification</i> , 2008 , 47, 200-208 | 3.7 | 6 |
| 42 | The application of the informational theory to the analysis of the grinding process under action of transverse rotating magnetic field. <i>Powder Technology</i> , 2010 , 201, 161-170 | 5.2 | 5 |
| 41 | Gas to liquid mass transfer in mixing system with application of rotating magnetic field. <i>Chemical Engineering and Processing: Process Intensification</i> , 2018 , 130, 11-18 | 3.7 | 5 |
| 40 | Hydrodynamics and Mass Transfer Analysis in BioFlow [®] Bioreactor Systems. <i>Processes</i> , 2020 , 8, 1311 | 2.9 | 4 |
| 39 | Single Mathematical Parameter for Evaluation of the Microorganisms Growth as the Objective Function in the Optimization by the DOE Techniques. <i>Microorganisms</i> , 2020 , 8, | 4.9 | 4 |
| 38 | PhageScore: A simple method for comparative evaluation of bacteriophages lytic activity. <i>Biochemical Engineering Journal</i> , 2020 , 161, 107652 | 4.2 | 4 |
| 37 | Purification and recovery of laccase produced by submerged cultures of <i>Trametes versicolor</i> by three-phase partitioning as a simple and highly efficient technique. <i>Polish Journal of Chemical Technology</i> , 2018 , 20, 88-95 | 1 | 4 |
| 36 | Few Layered Oxidized h-BN as Nanofiller of Cellulose-Based Paper with Superior Antibacterial Response and Enhanced Mechanical/Thermal Performance. <i>International Journal of Molecular Sciences</i> , 2020 , 21, | 6.3 | 4 |
| 35 | Effect of <i>Gluconacetobacter xylinus</i> cultivation conditions on the selected properties of bacterial cellulose. <i>Polish Journal of Chemical Technology</i> , 2016 , 18, 117-123 | 1 | 4 |
| 34 | Effect of rotating magnetic field on ferromagnetic structures used in hyperthermia. <i>Journal of Magnetism and Magnetic Materials</i> , 2021 , 518, 167418 | 2.8 | 4 |
| 33 | Application of the information theory to the description of the phosphorus compounds reduction at a sewage treatment plant. <i>Chemical Engineering Journal</i> , 2007 , 131, 283-292 | 14.7 | 3 |

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| 32 | Entropy criterion of random states for granular material in a mixing process. <i>Chemical Papers</i> , 2008 , 62, | 1.9 | 3 |
| 31 | The cellulose fibers functionalized with star-like zinc oxide nanoparticles with boosted antibacterial performance for hygienic products.. <i>Scientific Reports</i> , 2022 , 12, 1321 | 4.9 | 3 |
| 30 | Evaluation of ferrofluid-coated rotating magnetic field-assisted bioreactor for biomass production. <i>Chemical Engineering Journal</i> , 2022 , 431, 133913 | 14.7 | 3 |
| 29 | Bacterial Cellulose Membrane Containing L. Extract as a Promising Material for the Topical Delivery of Antioxidants to the Skin. <i>International Journal of Molecular Sciences</i> , 2021 , 22, | 6.3 | 3 |
| 28 | Fabrication of Paper Sheets Coatings Based on Chitosan/Bacterial Nanocellulose/ZnO with Enhanced Antibacterial and Mechanical Properties. <i>International Journal of Molecular Sciences</i> , 2021 , 22, | 6.3 | 3 |
| 27 | Correlations for mixing energy in processes using Rushton turbine mixer <i>Chemical Papers</i> , 2016 , 70, | 1.9 | 3 |
| 26 | Mathematical Modeling of Hydrodynamics in Bioreactor by Means of CFD-Based Compartment Model. <i>Processes</i> , 2020 , 8, 1301 | 2.9 | 2 |
| 25 | Influence of rotating magnetic field on gas-liquid volumetric mass transfer coefficient. <i>Chemical and Process Engineering - Inzynieria Chemiczna I Procesowa</i> , 2017 , 38, 423-432 | | 2 |
| 24 | Study of effect of temperature gradient on solid dissolution process under action of transverse rotating magnetic field. <i>AIChE Journal</i> , 2012 , 58, 1030-1039 | 3.6 | 2 |
| 23 | Experimental study and mathematical modeling of the residence time distribution in magnetic mixer. <i>Polish Journal of Chemical Technology</i> , 2013 , 15, 53-60 | 1 | 2 |
| 22 | The Characterization of the Residence Time Distribution in a Fluid Mixer by Means of the Information Entropy. <i>Lecture Notes on Multidisciplinary Industrial Engineering</i> , 2018 , 201-216 | 0.3 | 1 |
| 21 | Investigation of mixing time in liquid under influence of rotating magnetic field. <i>Chemical and Process Engineering - Inzynieria Chemiczna I Procesowa</i> , 2017 , 38, 555-565 | | 1 |
| 20 | Informational analysis of the grinding process of granular material using a multi-ribbon blender. <i>Chemical Papers</i> , 2009 , 63, | 1.9 | 1 |
| 19 | The development of an artificial neural network correlation for prediction of rotating magnetic field effects on the process of production of disperse systems Fe ₃ O ₄ liquid. <i>Computational Materials Science</i> , 2009 , 47, 460-465 | 3.2 | 1 |
| 18 | Preparation of Inoculum for Bacterial Cellulose Biosynthesis Using Magnetically Assisted External-Loop Airlift Bioreactor. <i>Polymers</i> , 2021 , 13, | 4.5 | 1 |
| 17 | The Effect of Rotating Magnetic Field on Enterotoxin Genes Expression in Staphylococcus Aureus Strains. <i>Journal of Magnetics</i> , 2016 , 21, 141-147 | 1.9 | 1 |
| 16 | Methods of Bacteriophages Production with Application of Alternate Magnetic Field 2020 , 171-182 | | 1 |
| 15 | Modulation of Cellular Response to Different Parameters of the Rotating Magnetic Field (RMF)-An In Vitro Wound Healing Study. <i>International Journal of Molecular Sciences</i> , 2021 , 22, | 6.3 | 1 |

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| 14 | Application of Magnetically Assisted Reactors for Modulation of Growth and Pyocyanin Production by .. <i>Frontiers in Bioengineering and Biotechnology</i> , 2022 , 10, 795871 | 5.8 | 1 |
| 13 | Rotating Magnetic Field-Assisted Reactor Enhances Mechanisms of Phage Adsorption on Bacterial Cell Surface. <i>Current Issues in Molecular Biology</i> , 2022 , 44, 1316-1325 | 2.9 | 1 |
| 12 | The influence of nanomaterials on pyocyanin production by <i>Pseudomonas aeruginosa</i> . <i>Applied Nanoscience (Switzerland)</i> ,1 | 3.3 | 1 |
| 11 | Biofilms in the gravity sewer interfaces: making a friend from a foe. <i>Reviews in Environmental Science and Biotechnology</i> , 2021 , 20, 795-813 | 13.9 | 0 |
| 10 | Basic physiology of <i>Pseudomonas aeruginosa</i> contacted with carbon nanocomposites. <i>Applied Nanoscience (Switzerland)</i> ,1 | 3.3 | 0 |
| 9 | Intensification of bacterial cellulose production process with sequential electromagnetic field exposure aided by dynamic modelling. <i>Biochemical Engineering Journal</i> , 2022 , 182, 108432 | 4.2 | 0 |
| 8 | Studies of neutralization reaction induced by rotating magnetic field. <i>Chemical Papers</i> , 2020 , 74, 3517-3526 | 5.2 | 0 |
| 7 | The Influence of Rotating Magnetic Field on Biochemical Processing. <i>Lecture Notes on Multidisciplinary Industrial Engineering</i> , 2018 , 67-83 | 0.3 | 0 |
| 6 | Following of polymerization process of polyurethane spinning solutions in dimethylformamide by means of the power consumption. <i>Chemical Engineering and Processing: Process Intensification</i> , 2009 , 48, 538-548 | 3.7 | 0 |
| 5 | Experimental study of temperature gradient on solid dissolution process exposed to transverse rotating magnetic field. <i>Journal of Physics: Conference Series</i> , 2012 , 395, 012163 | 0.3 | 0 |
| 4 | Statistical description of influence of biogenic compounds on process reduction of organic substance from municipal sewage in functioning treatment plant. <i>Biochemical Engineering Journal</i> , 2008 , 40, 79-91 | 4.2 | 0 |
| 3 | Study on the Effect of Rotating Magnetic Field on Cellular Response of Mammalian Cells 2020 , 132-143 | | |
| 2 | Application of Rotating Magnetic Field to Intensify the Processes in Airlift Reactor 2020 , 282-293 | | |
| 1 | Heat transfer investigations in a liquid that is mixed by means of a multi-ribbon mixer. <i>Polish Journal of Chemical Technology</i> , 2021 , 23, 66-72 | | 1 |