

# Miroslav M Vrvic

## List of Publications by Year in descending order

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115  
papers

2,502  
citations

279701

23  
h-index

223716

46  
g-index

121  
all docs

121  
docs citations

121  
times ranked

3555  
citing authors

#	ARTICLE	IF	CITATIONS
1	Natural and Modified (1 $\alpha$ ,3)- $\beta$ -D-Glucans in Health Promotion and Disease Alleviation. <i>Critical Reviews in Biotechnology</i> , 2005, 25, 205-230.	5.1	263
2	Antioxidants of Edible Mushrooms. <i>Molecules</i> , 2015, 20, 19489-19525.	1.7	239
3	Antioxidative activities and chemical characterization of polysaccharide extracts from the widely used mushrooms <i>Ganoderma applanatum</i> , <i>Ganoderma lucidum</i> , <i>Lentinus edodes</i> and <i>Trametes versicolor</i> . <i>Journal of Food Composition and Analysis</i> , 2012, 26, 144-153.	1.9	214
4	Ex situ bioremediation of a soil contaminated by mazut (heavy residual fuel oil) – A field experiment. <i>Chemosphere</i> , 2011, 83, 34-40.	4.2	118
5	Biodegradation of petroleum sludge and petroleum polluted soil by a bacterial consortium: a laboratory study. <i>Biodegradation</i> , 2012, 23, 1-14.	1.5	91
6	Production and characterization of rhamnolipids from <i>Pseudomonas aeruginosa</i> strain ai. <i>Journal of the Serbian Chemical Society</i> , 2012, 77, 27-42.	0.4	62
7	Rhamnolipid biosurfactant from <i>Pseudomonas aeruginosa</i> : From discovery to application in contemporary technology. <i>Journal of the Serbian Chemical Society</i> , 2015, 80, 279-304.	0.4	56
8	Assessment of Ecological Risk of Heavy Metal Contamination in Coastal Municipalities of Montenegro. <i>International Journal of Environmental Research and Public Health</i> , 2016, 13, 393.	1.2	56
9	Heat induced casein–whey protein interactions at natural pH of milk: A comparison between caprine and bovine milk. <i>Small Ruminant Research</i> , 2012, 108, 77-86.	0.6	53
10	Nutraceutical properties of the methanolic extract of edible mushroom <i>Cantharellus cibarius</i> (Fries): primary mechanisms. <i>Food and Function</i> , 2015, 6, 1875-1886.	2.1	53
11	Bioremediation of soil heavily contaminated with crude oil and its products: Composition of the microbial consortium. <i>Journal of the Serbian Chemical Society</i> , 2009, 74, 455-460.	0.4	51
12	Polysaccharides of higher fungi: Biological role, structure, and antioxidative activity. <i>Hemijska Industrija</i> , 2014, 68, 305-320.	0.3	50
13	Petroleum Pollutant Degradation by Surface Water Microorganisms (8 pp). <i>Environmental Science and Pollution Research</i> , 2006, 13, 320-327.	2.7	49
14	Cadmium specific proteomic responses of a highly resistant <i>Pseudomonas aeruginosa</i> strain ai. <i>RSC Advances</i> , 2018, 8, 10549-10560.	1.7	42
15	Qualitative and quantitative analysis of bovine milk adulteration in caprine and ovine milks using native-PAGE. <i>Food Chemistry</i> , 2011, 125, 1443-1449.	4.2	39
16	Perfluorinated compounds in sediment samples from the wastewater canal of Pančevo (Serbia) industrial area. <i>Chemosphere</i> , 2013, 91, 1408-1415.	4.2	37
17	High Levan Production by <i>Bacillus licheniformis</i> NS032 Using Ammonium Chloride as the Sole Nitrogen Source. <i>Applied Biochemistry and Biotechnology</i> , 2015, 175, 3068-3083.	1.4	37
18	Antioxidative Activity of Colostrum and Human Milk. <i>Journal of Pediatric Gastroenterology and Nutrition</i> , 2016, 62, 901-906.	0.9	34

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19	Bioactivity, stability and phenolic characterization of <i>Filipendula ulmaria</i> (L.) Maxim.. <i>Food and Function</i> , 2015, 6, 1164-1175.	2.1	33
20	Comparative phytochemical analysis of <i>Gentiana cruciata</i> L. roots and aerial parts, and their biological activities. <i>Industrial Crops and Products</i> , 2015, 73, 49-62.	2.5	32
21	Dietary polysaccharide extracts of <i>Agaricus brasiliensis</i> fruiting bodies: chemical characterization and bioactivities at different levels of purification. <i>Food Research International</i> , 2014, 64, 53-64.	2.9	27
22	Comparative Analysis of Rhamnolipids from Novel Environmental Isolates of <i>Pseudomonas aeruginosa</i> . <i>Journal of Surfactants and Detergents</i> , 2013, 16, 673-682.	1.0	25
23	Effect of pH on heat-induced casein-whey protein interactions: A comparison between caprine milk and bovine milk. <i>International Dairy Journal</i> , 2014, 39, 178-183.	1.5	25
24	Detection of catabolic genes in indigenous microbial consortia isolated from a diesel-contaminated soil. <i>Bioresource Technology</i> , 2001, 78, 47-54.	4.8	24
25	Transformations of n -alkanes from petroleum pollutants in alluvial groundwaters. <i>Environmental Chemistry Letters</i> , 2003, 1, 73-81.	8.3	23
26	Selenium content and distribution in rat tissues irradiated with gamma rays. <i>Biological Trace Element Research</i> , 1992, 33, 197-204.	1.9	22
27	Investigation of Interactions Between Surface Water and Petroleum Type Pollutants (9 pp). <i>Environmental Science and Pollution Research</i> , 2005, 12, 205-212.	2.7	22
28	Simultaneous production of pullulan and biosorption of metals by <i>Aureobasidium pullulans</i> strain CH-1 on peat hydrolysate. <i>Bioresource Technology</i> , 2008, 99, 6673-6677.	4.8	22
29	<i>Brachybacterium</i> sp. CH-KOV3 isolated from an oil-polluted environment – a new producer of levan. <i>International Journal of Biological Macromolecules</i> , 2017, 104, 311-321.	3.6	22
30	Synthesis, characterization, and antifungal activity of nystatin – gum arabic conjugates. <i>Journal of Applied Polymer Science</i> , 2013, 127, 4736-4743.	1.3	21
31	Detection of gelatinase B activity in serum of gastric cancer patients. <i>World Journal of Gastroenterology</i> , 2006, 12, 105.	1.4	21
32	Natural attenuation of petroleum hydrocarbons – a study of biodegradation effects in groundwater (Vitanovac, Serbia). <i>Environmental Monitoring and Assessment</i> , 2018, 190, 89.	1.3	20
33	Effects of Lipid-Transfer Protein from Malting Barley Grain on Brewers Yeast Fermentation. <i>Journal of the Institute of Brewing</i> , 2004, 110, 297-302.	0.8	19
34	Synthesis and characterization of a new type of levan-graft-polystyrene copolymer. <i>Carbohydrate Polymers</i> , 2016, 154, 20-29.	5.1	19
35	Potential of pure and mixed cultures of <i>Cladosporium cladosporioides</i> and <i>Geotrichum candidum</i> for application in bioremediation and detergent industry. <i>Saudi Journal of Biological Sciences</i> , 2018, 25, 529-536.	1.8	19
36	Dropwort ( <i>Filipendula hexapetala</i> Gilib.): potential role as antioxidant and antimicrobial agent. <i>EXCLI Journal</i> , 2015, 14, 1-20.	0.5	19

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37	Antioxidant activity of ethanolic extract of <i>Penicillium chrysogenum</i> and <i>Penicillium fusiculosum</i> . <i>Hemijaska Industrija</i> , 2014, 68, 43-49.	0.3	19
38	Effects of the oxygen transfer rate on ferrous iron oxidation by <i>Thiobacillus ferrooxidans</i> . <i>Enzyme and Microbial Technology</i> , 1998, 23, 427-431.	1.6	18
39	Transformation of Petroleum Saturated Hydrocarbons during Soil Bioremediation Experiments. <i>Water, Air, and Soil Pollution</i> , 2008, 190, 299-307.	1.1	18
40	Differences in direct pharmacologic effects and antioxidative properties of mature breast milk and infant formulas. <i>Nutrition</i> , 2013, 29, 431-435.	1.1	18
41	Microbial solubilization of phosphorus from phosphate rock by iron-oxidizing <i>Acidithiobacillus</i> sp. B2. <i>Minerals Engineering</i> , 2015, 72, 17-22.	1.8	18
42	Organic-geochemical Differentiation of Petroleum-type Pollutants and Study of Their Fate in Danube Alluvial Sediments and Corresponding Water (PanÄevo Oil Refinery, Serbia). <i>Water, Air, and Soil Pollution</i> , 2007, 183, 225-238.	1.1	17
43	Fine structural analysis of the fungal polysaccharide pullulan elaborated by <i>aureobasidium pullulans</i> , CH-1 strain. <i>Journal of the Serbian Chemical Society</i> , 2001, 66, 377-383.	0.4	17
44	Milk in human nutrition: Comparison of fatty acid profiles. <i>Acta Veterinaria</i> , 2009, 59, 569-578.	0.2	16
45	Transformation and synthesis of humic substances during bioremediation of petroleum hydrocarbons. <i>International Biodeterioration and Biodegradation</i> , 2017, 122, 47-52.	1.9	16
46	Bioremediation of soil polluted with crude oil and its derivatives: Microorganisms, degradation pathways, technologies. <i>Hemijaska Industrija</i> , 2012, 66, 275-289.	0.3	15
47	Interactions of the metal tolerant heterotrophic microorganisms and iron oxidizing autotrophic bacteria from sulphidic mine environment during bioleaching experiments. <i>Journal of Environmental Management</i> , 2016, 172, 151-161.	3.8	14
48	A glucan from active dry baker's yeast ( <i>Saccharomyces cerevisiae</i> ): A chemical and enzymatic investigation of the structure. <i>Journal of the Serbian Chemical Society</i> , 2003, 68, 805-809.	0.4	14
49	Prevention and recovery of (1/4 3-diethylentriamino)-chloro-palladium(II)-chloride induced inhibition of Na/K-ATPase by SH containing ligands " l-cysteine and glutathione. <i>Toxicology in Vitro</i> , 2006, 20, 1292-1299.	1.1	12
50	Removal of organically bound sulfur from oil shale by iron(III)-ion generated " regenerated from pyrite by the action of <i>Acidithiobacillus ferrooxidans</i> " Research on a model system. <i>Hydrometallurgy</i> , 2008, 94, 8-13.	1.8	12
51	Enzymatic characterization of 30 kDa lipase from <i>Pseudomonas aeruginosa</i> ATCC 27853. <i>Journal of Basic Microbiology</i> , 2009, 49, 452-462.	1.8	12
52	Investigation of the bioremediation potential of aerobic zymogenous microorganisms in soil for crude oil biodegradation. <i>Journal of the Serbian Chemical Society</i> , 2011, 76, 425-438.	0.4	12
53	Biochemical and pharmacological evaluation of 4-hydroxychromen-2-ones bearing polar C-3 substituents as anticoagulants. <i>European Journal of Medicinal Chemistry</i> , 2012, 54, 144-158.	2.6	12
54	Zinc concentrations in human milk and infant serum during the first six months of lactation. <i>Journal of Trace Elements in Medicine and Biology</i> , 2017, 41, 75-78.	1.5	12

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55	Biodegradation of Isoprenoids, Steranes, Terpanes, and Phenanthrenes During In Situ Bioremediation of Petroleum-Contaminated Groundwater. <i>Clean - Soil, Air, Water</i> , 2017, 45, 1600023.	0.7	12
56	Comparative Electrochemical Determination of Total Antioxidant Activity in Infant Formula with Breast Milk. <i>Food Analytical Methods</i> , 2014, 7, 337-344.	1.3	11
57	The distributions of major whey proteins in acid wheys obtained from caprine/bovine and ovine/bovine milk mixtures. <i>International Dairy Journal</i> , 2011, 21, 831-838.	1.5	10
58	Degradation of methyl-phenanthrene isomers during bioremediation of soil contaminated by residual fuel oil. <i>Environmental Chemistry Letters</i> , 2012, 10, 287-294.	8.3	10
59	Enhanced in situ bioremediation of groundwater contaminated by petroleum hydrocarbons at the location of the Nitex textiles, Serbia. <i>Environmental Earth Sciences</i> , 2015, 74, 5211-5219.	1.3	10
60	Treatment of a mud pit by bioremediation. <i>Waste Management and Research</i> , 2016, 34, 734-739.	2.2	10
61	Investigation of bioremediation potential of zymogenous bacteria and fungi for crude oil degradation. <i>Environmental Chemistry Letters</i> , 2011, 9, 133-140.	8.3	9
62	The effects of repetitive alkaline/acid extractions of <i>Saccharomyces cerevisiae</i> cell wall on antioxidative and bifidogenic efficacy. <i>International Journal of Food Science and Technology</i> , 2012, 47, 369-375.	1.3	9
63	High-quality draft genome sequence of <i>Pseudomonas aeruginosa</i> strain ai, an environmental isolate resistant to heavy metals. <i>Extremophiles</i> , 2019, 23, 399-405.	0.9	9
64	Isolation and Characterization of Highly Liganded Protein from Brewer's Barley Grain. <i>Bioscience, Biotechnology and Biochemistry</i> , 2002, 66, 1940-1944.	0.6	8
65	Bioorganic Mechanisms of the Formation of Free Radicals Catalyzed by Glucose Oxidase. <i>Bioorganic Chemistry</i> , 2002, 30, 95-106.	2.0	8
66	A Comparative Investigation of an in vitro and Clinical Test of the Bifidogenic Effect of an Infant Formula. <i>Journal of Clinical Biochemistry and Nutrition</i> , 2010, 47, 208-216.	0.6	8
67	Effect of the edaphic factors and metal content in soil on the diversity of <i>Trichoderma</i> spp.. <i>Environmental Science and Pollution Research</i> , 2017, 24, 3375-3386.	2.7	8
68	The potential application of fungus <i>Trichoderma harzianum</i> Rifai in biodegradation of detergent and industry. <i>Chemical Industry and Chemical Engineering Quarterly</i> , 2015, 21, 131-139.	0.4	7
69	Phytochemical, Free Radical Scavenging and Antifungal Profile of <i>Cuscuta campestris</i> Yunck. <i>Seeds. Chemistry and Biodiversity</i> , 2018, 15, e1800174.	1.0	7
70	Initial microbial degradation of polycyclic aromatic hydrocarbons. <i>Chemical Industry and Chemical Engineering Quarterly</i> , 2016, 22, 293-299.	0.4	7
71	Influence of detergent and its components on metabolism of <i>Fusarium oxysporum</i> in submerged fermentation. <i>Hemijaska Industrija</i> , 2014, 68, 465-473.	0.3	7
72	Bioremediation of groundwater contaminated with petroleum hydrocarbons applied at a site in Belgrade (Serbia). <i>Journal of the Serbian Chemical Society</i> , 2020, 85, 1067-1081.	0.4	7

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73	Characterization of recombinant antibodies for detection of TNT and its derivatives. <i>Chemical Papers</i> , 2009, 63, .	1.0	6
74	Change of isoprenoids, steranes and terpanes during ex situ bioremediation of mazut on industrial level. <i>Journal of the Serbian Chemical Society</i> , 2010, 75, 1605-1616.	0.4	6
75	Investigation of potentially toxic elements in urban sediments in Belgrade, Serbia. <i>Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering</i> , 2020, 55, 765-775.	0.9	6
76	Mild Pfitzner-Moffat oxidation of the (1 $\alpha$ '3)- $\beta$ -D-glucan from <i>Saccharomyces cerevisiae</i> . <i>Chemical Papers</i> , 2006, 60, .	1.0	5
77	Oxidation of dibenzothiophene as a model substrate for the removal of organic sulphur from fossil fuels by iron(III) ions generated from pyrite by <i>Acidithiobacillus ferrooxidans</i> . <i>Journal of the Serbian Chemical Society</i> , 2007, 72, 533-537.	0.4	5
78	Transformation of a petroleum pollutant during soil bioremediation experiments. <i>Journal of the Serbian Chemical Society</i> , 2008, 73, 577-583.	0.4	5
79	Degradability of n-alkanes during ex situ natural bioremediation of soil contaminated by heavy residual fuel oil (mazut). <i>Journal of the Serbian Chemical Society</i> , 2013, 78, 1035-1043.	0.4	5
80	Capacity of <i>Aspergillus niger</i> to Degrade Anionic Surfactants and Coproduce the Detergent Compatible Enzymes. <i>Applied Biochemistry and Microbiology</i> , 2016, 52, 183-189.	0.3	5
81	A kinetic model of ferrous iron oxidation by <i>Acidithiobacillus ferrooxidans</i> in a batch culture. <i>Chemical Industry and Chemical Engineering Quarterly</i> , 2005, 11, 59-62.	0.4	5
82	The ability of fungus <i>Mucor racemosus</i> Fresenius to degrade high concentration of detergent. <i>Chemical Industry and Chemical Engineering Quarterly</i> , 2014, 20, 587-595.	0.4	5
83	Antioxidant activity of <i>Ruscus</i> species from Serbia: Potential new sources of natural antioxidants. <i>Hemijska Industrija</i> , 2016, 70, 99-106.	0.3	5
84	Potential of <i>Penicillium cyclopium</i> westling for removing of anionic surfactants and biotechnology. <i>Applied Biochemistry and Microbiology</i> , 2015, 51, 704-711.	0.3	4
85	Microbial Polysaccharides: Between Oil Wells, Food and Drugs. <i>Food Engineering Series</i> , 2016, , 313-327.	0.3	4
86	The Potential Application of Selected Fungi Strains in Removal of Commercial Detergents and Biotechnology. , 2017, , .		4
87	Redox properties of transitional milk from mothers of preterm infants. <i>Journal of Paediatrics and Child Health</i> , 2018, 54, 160-164.	0.4	4
88	Oil pollutants in alluvial sediments: Influence of the intensity of contact with ground waters on the effect of microorganisms. <i>Journal of the Serbian Chemical Society</i> , 2003, 68, 227-234.	0.4	4
89	Evaluation of assays for screening polycyclic aromatic hydrocarbon-degrading potential of bacteria. <i>Chemical Industry and Chemical Engineering Quarterly</i> , 2020, 26, 41-48.	0.4	4
90	Bacterially generated Fe <sub>2</sub> (SO <sub>4</sub> ) <sub>3</sub> from pyrite, as a leaching agent for heavy metals from lignite ash. <i>Journal of the Serbian Chemical Society</i> , 2007, 72, 615-619.	0.4	3

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91	Recombinant expression of monovalent and bivalent anti-TNT-antibodies: Evaluation of different expression systems. <i>Journal of the Serbian Chemical Society</i> , 2008, 73, 139-145.	0.4	3
92	Changes in the infrared attenuated total reflectance (ATR) spectra of lignins from alfalfa stem with growth and development. <i>Journal of the Serbian Chemical Society</i> , 2009, 74, 885-892.	0.4	3
93	Evaluation of potential human health risks from exposure to volatile organic compounds in contaminated urban groundwater in the Sava river aquifer, Belgrade, Serbia. <i>Environmental Geochemistry and Health</i> , 2022, 44, 3451-3472.	1.8	3
94	Long Term Studies on the Impact of Thionic Bacteria on the Global Pollution of Waters with Toxic Ions. <i>Advanced Materials Research</i> , 0, 71-73, 105-108.	0.3	2
95	Heat-Induced Casein-Whey Protein Interactions in Caprine Milk: Whether Are Similar to Bovine Milk?. <i>Food Engineering Series</i> , 2016, , 163-175.	0.3	2
96	Visualisation of the interaction between <i>Acidithiobacillus ferrooxidans</i> and oil shale by atomic force microscopy. <i>Journal of Mining and Metallurgy, Section B: Metallurgy</i> , 2012, 48, 207-217.	0.3	2
97	Kinetic study of the depyritization of oil shale HCl-kerogen concentrate by <i>Thiobacillus ferrooxidans</i> at different temperatures. <i>Journal of the Serbian Chemical Society</i> , 2003, 68, 417-423.	0.4	2
98	Monitoring of underground water: Necessary step in determining the method for site remediation. <i>Materials Protection</i> , 2016, 57, 389-396.	0.1	2
99	Removal of Organically Bound Sulfur From Oil Shale by Iron(III)-Ion Generated-Regenerated from Pyrite by the Action of <i>Acidithiobacillus ferrooxidans</i> . <i>Advanced Materials Research</i> , 2007, 20-21, 46-49.	0.3	1
100	Inhibition of trypsin by heparin and dalteparin, a low molecular weight heparin. <i>Journal of the Serbian Chemical Society</i> , 2009, 74, 379-388.	0.4	1
101	The Effect of Humic Acids on Zymogenous Microbial Consortia Growth. <i>Clean - Soil, Air, Water</i> , 2014, 42, 1280-1283.	0.7	1
102	Study on the assessment of humification processes during biodegradation of heavy residual fuel oil. <i>Science of the Total Environment</i> , 2021, 797, 149099.	3.9	1
103	The influence of the association patterns of phosphorus-substrates and xylene-substrates on the degradation of xylenes in an alluvial aquifer. <i>Journal of the Serbian Chemical Society</i> , 2005, 70, 1515-1531.	0.4	1
104	Evidence of stability of sedimentary organic matter during bacterial desilicification of an oil shale. <i>Journal of the Serbian Chemical Society</i> , 2001, 66, 95-99.	0.4	1
105	Ageing-induced changes of reduced and oxidized glutathione in fragments of maize seedlings. <i>Journal of the Serbian Chemical Society</i> , 2003, 68, 911-918.	0.4	1
106	The effect of ethoxylated oleyl-cetyl alcohol on metabolism of some fungi and their potential application in mycoremediation. <i>Hemijaska Industrija</i> , 2016, 70, 277-286.	0.3	1
107	Surface water microorganisms degrade dominantly petroleum hydrocarbons. <i>Journal of Biotechnology</i> , 2007, 131, S150.	1.9	0
108	Commentary on the article titled "Investigation of the microbial diversity of an extremely acidic, metal-rich water body (Lake Robule, Bor, Serbia)" by Srdjan Stankovic, Ivana Moric, Aleksandar Pavic, Branka Vasiljevic, D. Barrie Johnson and Vladica Cvetkovic, published in the <i>Journal of the Serbian chemical society</i> , volume 79, issue 6, pages: 729-741. <i>Journal of the Serbian Chemical Society</i> , 2014, 79, 1571-1574.	0.4	0

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109	Bioleaching of copper, zinc and gold from a polymetallic ore flotation concentrate from the Coka Marin deposit (Serbia). <i>Journal of the Serbian Chemical Society</i> , 2021, , 16-16.	0.4	0
110	Bioremediation of soil polluted with oil. <i>Acta Agriculturae Serbica</i> , 2021, 26, 77-81.	0.1	0
111	Comprehensive enzyme kinetics by V. Leskovic, Published by Kluwer Academic/Plenum Pblisher New York, March 2003-11-17. <i>Journal of the Serbian Chemical Society</i> , 2003, 68, 1011-1013.	0.4	0
112	Investigation of action of peroxyacetic acid on lipid component of bacterial spores and contribution to the standardization of efficiency evaluation test. <i>Acta Veterinaria</i> , 2005, 55, 147-160.	0.2	0
113	Pyrite oxidation by <i>Acidithiobacillus ferrooxidans</i> bacteria. <i>Hemijaska Industrija</i> , 2005, 59, 15-18.	0.3	0
114	Production of biotechnological useful metabolites by <i>Mucor racemosus</i> in Czapek-Dox liquid media supplemented with synthetic detergent. <i>Chemical Industry and Chemical Engineering Quarterly</i> , 2018, 24, 209-219.	0.4	0
115	Evolution of humic acids during ex situ bioremediation on a pilot level: The added value of the microbial activity. <i>Journal of the Serbian Chemical Society</i> , 2020, 85, 821-830.	0.4	0