

# Octavian Popescu

## List of Publications by Year in descending order

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82  
papers

2,391  
citations

257101

24  
h-index

214527

47  
g-index

85  
all docs

85  
docs citations

85  
times ranked

2727  
citing authors

#	ARTICLE	IF	CITATIONS
1	Binding strength between cell adhesion proteoglycans measured by atomic force microscopy. <i>Science</i> , 1995, 267, 1173-1175.	6.0	424
2	Synergistic antibacterial activity of chitosan-silver nanocomposites on <i>Staphylococcus aureus</i> . <i>Nanotechnology</i> , 2011, 22, 135101.	1.3	180
3	P-(Chloromercuri)benzenesulfonate binding by membrane proteins and the inhibition of water transport in human erythrocytes. <i>Biochemistry</i> , 1986, 25, 1535-1538.	1.2	143
4	The two soluble forms of the lipopolysaccharide receptor, CD14: Characterization and release by normal human monocytes. <i>European Journal of Immunology</i> , 1994, 24, 2006-2012.	1.6	143
5	The Protozoan Parasite <i>Toxoplasma gondii</i> Expresses Two Functional Plant-like Glycolytic Enzymes. <i>Journal of Biological Chemistry</i> , 1999, 274, 24888-24895.	1.6	106
6	Differential expression of two plant-like enolases with distinct enzymatic and antigenic properties during stage conversion of the protozoan parasite <i>Toxoplasma gondii</i> . <i>Journal of Molecular Biology</i> , 2001, 309, 1017-1027.	2.0	105
7	Chitosan-coated triangular silver nanoparticles as a novel class of biocompatible, highly sensitive plasmonic platforms for intracellular SERS sensing and imaging. <i>Nanoscale</i> , 2013, 5, 6013.	2.8	65
8	Designing chitosan-silver nanoparticles-graphene oxide nanohybrids with enhanced antibacterial activity against <i>Staphylococcus aureus</i> . <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2015, 487, 113-120.	2.3	62
9	Water exchange through erythrocyte membranes: Nuclear magnetic resonance studies on the effects of inhibitors and of chemical modification of human membranes. <i>Journal of Membrane Biology</i> , 1983, 76, 129-137.	1.0	61
10	On measuring the diffusional water permeability of human red blood cells and ghosts by nuclear magnetic resonance. <i>Journal of Proteomics</i> , 1990, 21, 87-102.	2.4	61
11	Molecular codes for cell type specification in Brn3 retinal ganglion cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, E3974-E3983.	3.3	60
12	Self-recognition by proteoglycans. <i>Nature</i> , 1997, 386, 231-232.	13.7	48
13	Effects of temperature on water diffusion in human erythrocytes and ghosts - nuclear magnetic resonance studies. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1987, 905, 339-348.	1.4	43
14	Effects of temperature and pH on the water exchange through erythrocyte membranes: Nuclear magnetic resonance studies. <i>Journal of Membrane Biology</i> , 1981, 62, 1-5.	1.0	42
15	Bioprospecting for Novel Halophilic and Halotolerant Sources of Hydrolytic Enzymes in Brackish, Saline and Hypersaline Lakes of Romania. <i>Microorganisms</i> , 2020, 8, 1903.	1.6	38
16	Release of Antibiotic Resistant Bacteria by a Waste Treatment Plant from Romania. <i>Microbes and Environments</i> , 2017, 32, 219-225.	0.7	33
17	Dre - Cre Sequential Recombination Provides New Tools for Retinal Ganglion Cell Labeling and Manipulation in Mice. <i>PLoS ONE</i> , 2014, 9, e91435.	1.1	31
18	Bioactivity evolution of the surface functionalized bioactive glasses. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2015, 103, 261-272.	1.6	30

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19	Decreased water permeability of erythrocyte membranes in patients with duchenne muscular dystrophy. <i>Muscle and Nerve</i> , 1986, 9, 243-247.	1.0	29
20	Molecular Fingerprinting of Carbohydrate Structure Phenotypes of Three Porifera Proteoglycan-like Glyconectins. <i>Journal of Biological Chemistry</i> , 2004, 279, 15591-15603.	1.6	28
21	Differentiation and speciation in mountain streams: a case study in the caddisfly <i>Rhyacophila aquitana</i> (Trichoptera). <i>Journal of Zoological Systematics and Evolutionary Research</i> , 2008, 46, 340-345.	0.6	28
22	Quantitative and qualitative approach of glycan-glycan interactions in marine sponges. <i>Biochimie</i> , 2003, 85, 181-188.	1.3	27
23	Irreversible inhibition of water transport in erythrocytes by fluoresceinmercuric acetate. <i>Cell Biology International Reports</i> , 1982, 6, 775-781.	0.7	26
24	Molecular Recognition between Glyconectins as an Adhesion Self-assembly Pathway to Multicellularity. <i>Journal of Biological Chemistry</i> , 2004, 279, 15579-15590.	1.6	25
25	Water exchange through erythrocyte membranes: Nuclear magnetic resonance studies on resealed ghosts compared to human erythrocytes. <i>Journal of Membrane Biology</i> , 1986, 89, 127-130.	1.0	24
26	The basal permeability to water of human red blood cells evaluated by a nuclear magnetic resonance technique. <i>Bioscience Reports</i> , 1990, 10, 31-36.	1.1	24
27	Pluronic-coated silver nanoprisms: Synthesis, characterization and their antibacterial activity. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2014, 441, 77-83.	2.3	24
28	Divergence and speciation in the Carpathians area: patterns of morphological and genetic diversity of the crane fly <i>Pedicia occulta</i> (Diptera: Pediciidae). <i>Journal of the North American Benthological Society</i> , 2010, 29, 1075-1088.	3.0	22
29	Water exchange through erythrocyte membranes: p-chloromercuribenzenesulfonate inhibition of water diffusion in ghosts studied by a nuclear magnetic resonance technique. <i>Bioscience Reports</i> , 1985, 5, 223-228.	1.1	21
30	Role of the Deubiquitylating Enzyme DmUsp5 in Coupling Ubiquitin Equilibrium to Development and Apoptosis in <i>Drosophila melanogaster</i> . <i>PLoS ONE</i> , 2015, 10, e0120875.	1.1	21
31	Hominoid Composite Non-LTR Retrotransposons: Variety, Assembly, Evolution, and Structural Determinants of Mobilization. <i>Molecular Biology and Evolution</i> , 2014, 31, 2847-2864.	3.5	20
32	IgG antibodies against immunodominant C-terminal epitopes of BP230 do not induce skin blistering in mice. <i>Human Immunology</i> , 2014, 75, 354-363.	1.2	19
33	The anchoring of fibrinogen to a bioactive glass investigated by FT-IR spectroscopy. <i>Vibrational Spectroscopy</i> , 2012, 62, 172-179.	1.2	18
34	Dynamic expression of transcription factor Brn3b during mouse cranial nerve development. <i>Journal of Comparative Neurology</i> , 2016, 524, 1033-1061.	0.9	18
35	Pilot longitudinal mosquito surveillance study in the Danube Delta Biosphere Reserve and the first reports of <i>Anopheles algeriensis</i> Theobald, 1903 and <i>Aedes hungaricus</i> Mihályi, 1955 for Romania. <i>Parasites and Vectors</i> , 2016, 9, 196.	1.0	18
36	Taxonomic revision of <i>Rhyacophila aquitana</i> (Trichoptera: Rhyacophilidae), based on molecular and morphological evidence and change of taxon status of <i>Rhyacophila aquitana</i> ssp. <i>carpathica</i> to <i>Rhyacophila carpathica</i> stat. n.. <i>Zootaxa</i> , 2009, 2148, 39-48.	0.2	17

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37	Water exchange through erythrocyte membranes: Biochemical and nuclear magnetic resonance studies re-evaluating the effects of sulfhydryl reagents and of proteolytic enzymes on human membranes. <i>Journal of Membrane Biology</i> , 1989, 108, 105-113.	1.0	16
38	New and old microbial communities colonizing a seventeenth-century wooden church. <i>Folia Microbiologica</i> , 2014, 59, 45-51.	1.1	16
39	Water exchange through erythrocyte membranes V. Incubation with papain prevents the p-chloromercuri-benzensulfonate inhibition of water diffusion studied by a nuclear magnetic resonance technique. <i>Cell Biology International Reports</i> , 1983, 7, 807-818.	0.7	15
40	Water transport in human red cells: effects of "non-inhibitory" sulfhydryl reagents. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1991, 1061, 309-312.	1.4	15
41	A simple method for drying polyacrylamide slab gels using glycerol and gelatin. <i>Electrophoresis</i> , 1983, 4, 432-433.	1.3	14
42	Catalyzing Transcriptomics Research in Cardiovascular Disease: The CardioRNA COST Action CA17129. <i>Non-coding RNA</i> , 2019, 5, 31.	1.3	14
43	The effect of the saturation and isomerization of dietary fatty acids on the osmotic fragility and water diffusional permeability of rat erythrocytes. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1984, 775, 255-259.	1.4	13
44	STR data for the 15 AmpFISTR identifier loci in the Western Romanian population. <i>Forensic Science International</i> , 2007, 170, 73-75.	1.3	13
45	Lineage specific evolution of the VNTR composite retrotransposon central domain and its role in retrotransposition of gibbon LAVA elements. <i>BMC Genomics</i> , 2015, 16, 389.	1.2	12
46	Sulfate restriction induces hyposecretion of the adhesion proteoglycan and cell hypomotility associated with increased $^{35}\text{SO}_4^{2-}$ uptake and expression of a band 3 like protein in the marine sponge, <i>Microciona prolifera</i> . <i>Journal of Cellular Biochemistry</i> , 1995, 57, 71-89.	1.2	11
47	Stereoselective synthesis of $^{15}\text{N}$ amino acids with glucose dehydrogenase and galactose mutarotase as NADH regenerating system. <i>Journal of Labelled Compounds and Radiopharmaceuticals</i> , 2008, 51, 171-174.	0.5	10
48	Characterization of Some Salt-Tolerant Bacterial Hydrolases with Potential Utility in Cultural Heritage Bio-Cleaning. <i>Microorganisms</i> , 2022, 10, 644.	1.6	10
49	Separation of erythrocyte enzymes from hemoglobin by chromatography on blue-Sepharose. <i>FEBS Letters</i> , 1982, 139, 41-44.	1.3	9
50	Comparative nuclear magnetic resonance studies of diffusional water permeability of red blood cells from sheep and cow. <i>Comparative Biochemistry and Physiology Part B: Comparative Biochemistry</i> , 1993, 104, 589-594.	0.2	9
51	Mobile Element Evolution Playing Jigsaw "SINEs in Gastropod and Bivalve Mollusks. <i>Genome Biology and Evolution</i> , 2016, 8, 253-270.	1.1	9
52	Comparison of liposome entrapment parameters by optical and atomic absorption spectrophotometry. <i>Bioscience Reports</i> , 1985, 5, 1-5.	1.1	8
53	Genetic Variation at 15 Polymorphic, Autosomal, Short Tandem Repeat Loci of Two Hungarian Populations in Transylvania, Romania. <i>Croatian Medical Journal</i> , 2010, 51, 515-523.	0.2	8
54	Passive transfer of collagen XVII-specific antibodies induces sustained blistering disease in adult mice. <i>Orphanet Journal of Rare Diseases</i> , 2013, 8, 17.	1.2	8

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55	Maternal DNA lineages at the gate of Europe in the 10th century AD. PLoS ONE, 2018, 13, e0193578.	1.1	8
56	Studies of water permeability and proteins of erythrocyte membranes in patients with Duchenne muscular dystrophy. Muscle and Nerve, 1989, 12, 294-301.	1.0	7
57	Cellular sensing platform with enhanced sensitivity based on optogenetic modulation of cell homeostasis. Biosensors and Bioelectronics, 2020, 154, 112003.	5.3	7
58	A novel class of embryonic cell adhesion glycan epitopes is expressed in human colon carcinomas. Journal of Molecular Recognition, 1995, 8, 100-105.	1.1	6
59	Expression and Biological Activity of Genetic Fusions between MalE, the Maltose Binding Protein from Escherichia coli and Portions of CD4, the T-Cell Receptor of the AIDS Virus. Protein Expression and Purification, 1996, 8, 319-331.	0.6	6
60	<i>In vitro</i> evaluation of the effects of yttria-alumina-silica microspheres on human keratinocyte cells. Journal of Biomedical Materials Research - Part A, 2013, 101A, 472-477.	2.1	6
61	Interface processes between iron containing aluminosilicate systems and simulated body fluid enriched with protein. Journal of Materials Science: Materials in Medicine, 2010, 21, 1913-1920.	1.7	5
62	Modulation of Cellular Reactivity for Enhanced Cell-Based Biosensing. Analytical Chemistry, 2020, 92, 806-814.	3.2	5
63	Modifications of Human Erythrocyte Membranes and Their Effect on Water Permeability Studied by a Nuclear Magnetic Resonance Technique. , 1985, , 303-312.		5
64	Molecular and cellular targeting in the expression of foreign polypeptides in bacteria. Antonie Van Leeuwenhoek, 1992, 61, 143-152.	0.7	4
65	Design and construction of wall-less nano-electrophoretic and nano in micro array high throughput devices for single cell omics™ single molecule detection analyses. Journal of Molecular Structure, 2014, 1073, 142-149.	1.8	4
66	Advanced Optogenetic-Based Biosensing and Related Biomaterials. Materials, 2021, 14, 4151.	1.3	4
67	Biosynthesis of Tyrosine O-Sulfate by Cell Proteoglycan from the Marine Sponge, Microciona prolifera. Biological Bulletin, 1999, 197, 279-281.	0.7	3
68	<strong>European phylogeography of <i>Rhyacophila tristis</i> Pictet (Trichoptera: Rhyacophilidae): preliminary results</strong> . Zoosymposia, 2011, 5, 11-18.	0.3	3
69	Enzymatic synthesis of some <sup>15</sup> N-labelled l-amino acids. Isotopes in Environmental and Health Studies, 2010, 46, 249-254.	0.5	2
70	A probable case of infantile cortical hyperostosis in 2nd-4th centuries AD Romania. International Journal of Paleopathology, 2019, 26, 8-13.	0.8	2
71	Screening of <i>mecl</i> Gene in <i>Staphylococcus</i> Strains Isolated in Transylvania Region of Romania. Microbial Drug Resistance, 2019, 25, 639-643.	0.9	2
72	Mitochondrial ancestry of medieval individuals carelessly interred in a multiple burial from southeastern Romania. Scientific Reports, 2019, 9, 961.	1.6	2

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73	Note: Sensitivity multiplication module for quartz crystal microbalance applications. Review of Scientific Instruments, 2014, 85, 026116.	0.6	1
74	Effects of Cd <sup>2+</sup> on the epithelial Na <sup>+</sup> channel (ENaC) investigated by experimental and modeling studies. General Physiology and Biophysics, 2016, 35, 259-271.	0.4	1
75	Recent Investigations on Water Permeability of Erythrocytes in Normal and Duchenne Muscular Dystrophy Subjects. , 1988, , 204-219.		1
76	Enzymatic Synthesis of 15N-L-aspartic Acid Using Recombinant Aspartase from Escherichia Coli K12. Revista De Chimie (discontinued), 2008, 59, .	0.2	1
77	Genes and dental disorders. Clujul Medical, 2013, 86, 196-9.	0.1	1
78	Identification and characterization of major histocompatibility complex class IIB alleles from three species of European ranid frogs. Molecular Biology Research Communications, 2014, 3, 215-222.	0.2	1
79	Amino acid composition of band 3 protein from red blood cells of normal and epileptic children. Bioscience Reports, 1991, 11, 53-57.	1.1	0
80	Glyconectin Glycans as the Self-Assembling Nano-Molecular-Velcrosystem Mediating Self-Nonself Recognition and Adhesion Implicated in Evolution of Multicellularity. Advances in Experimental Medicine and Biology, 2012, 738, 31-45.	0.8	0
81	Glyconectin Cell Adhesion Epitope, $\beta$ -d-GlcpNAc3S-(1 $\rightarrow$ 3)- $\beta$ -l-Fucp, Is Involved in Blastulation of Lytechinus pictus Sea Urchin Embryos. Molecules, 2021, 26, 4012.	1.7	0
82	Low Population Structure and Genetic Diversity in Rhinolophus blasii at the Northern Limit of Its European Range: Are there Undiscovered Colonies?. Acta Chiropterologica, 2022, 23, .	0.2	0